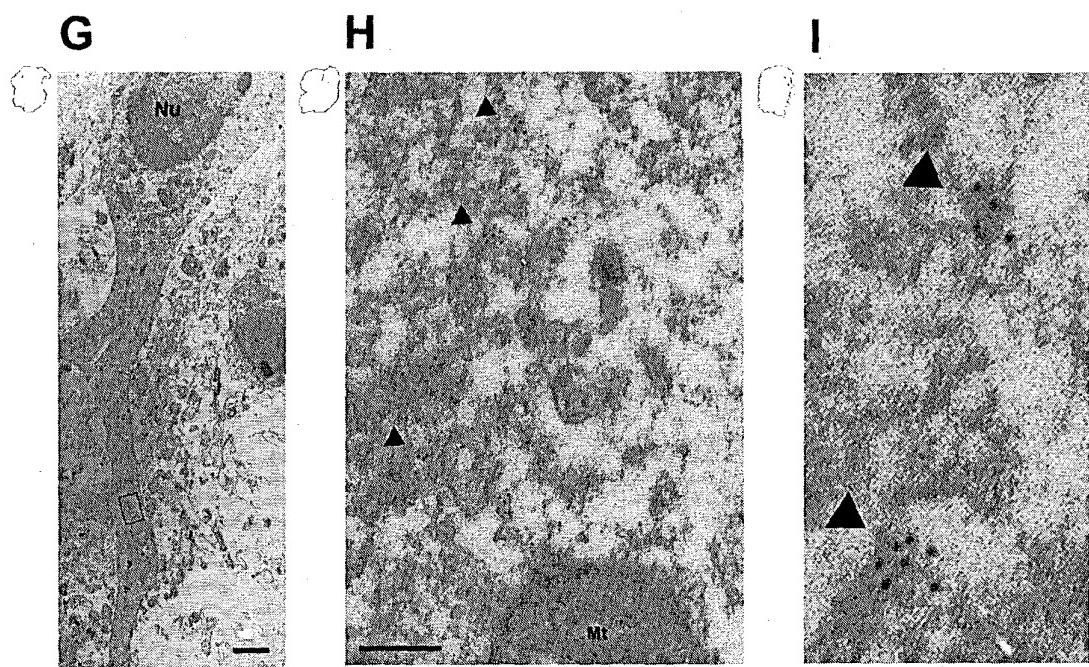
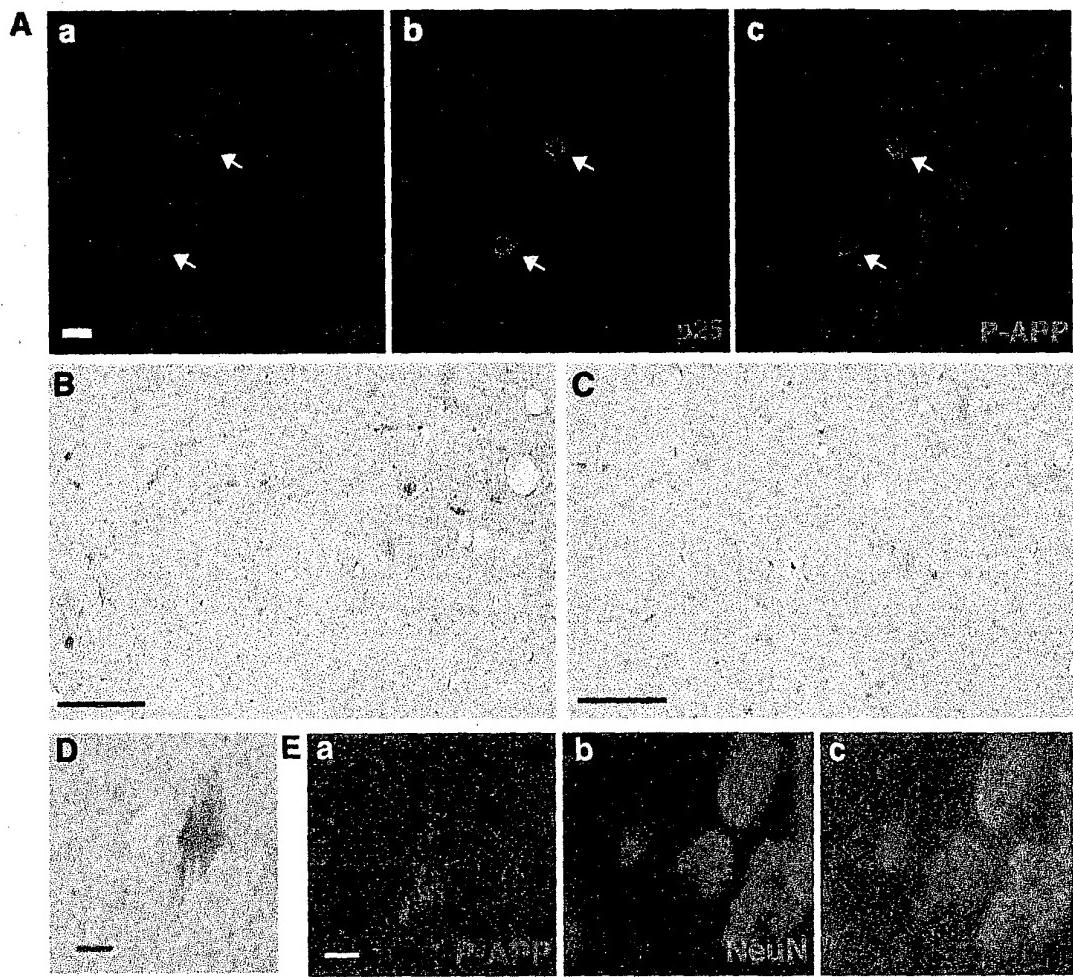


Figure 1



**Figure 1 (cont.)**



**Figure 2**

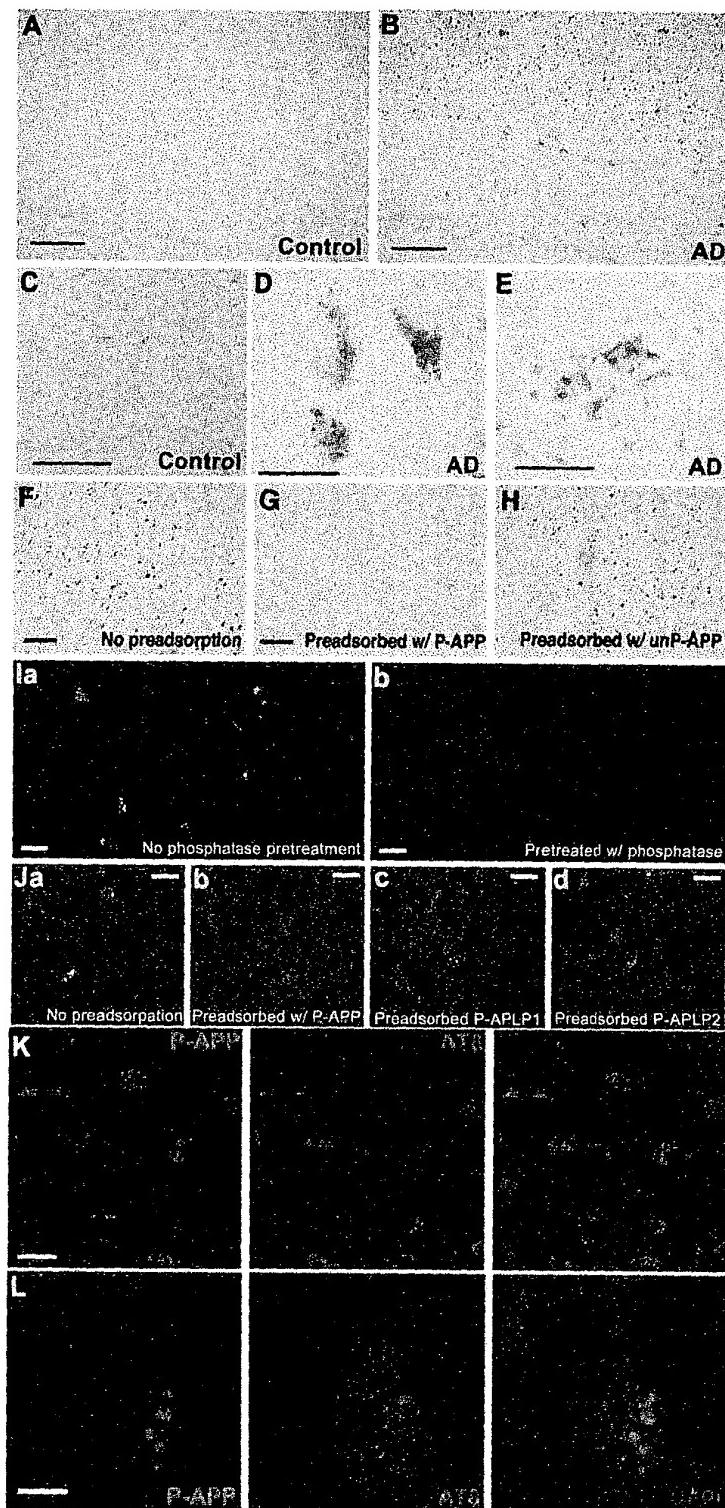


Figure 3

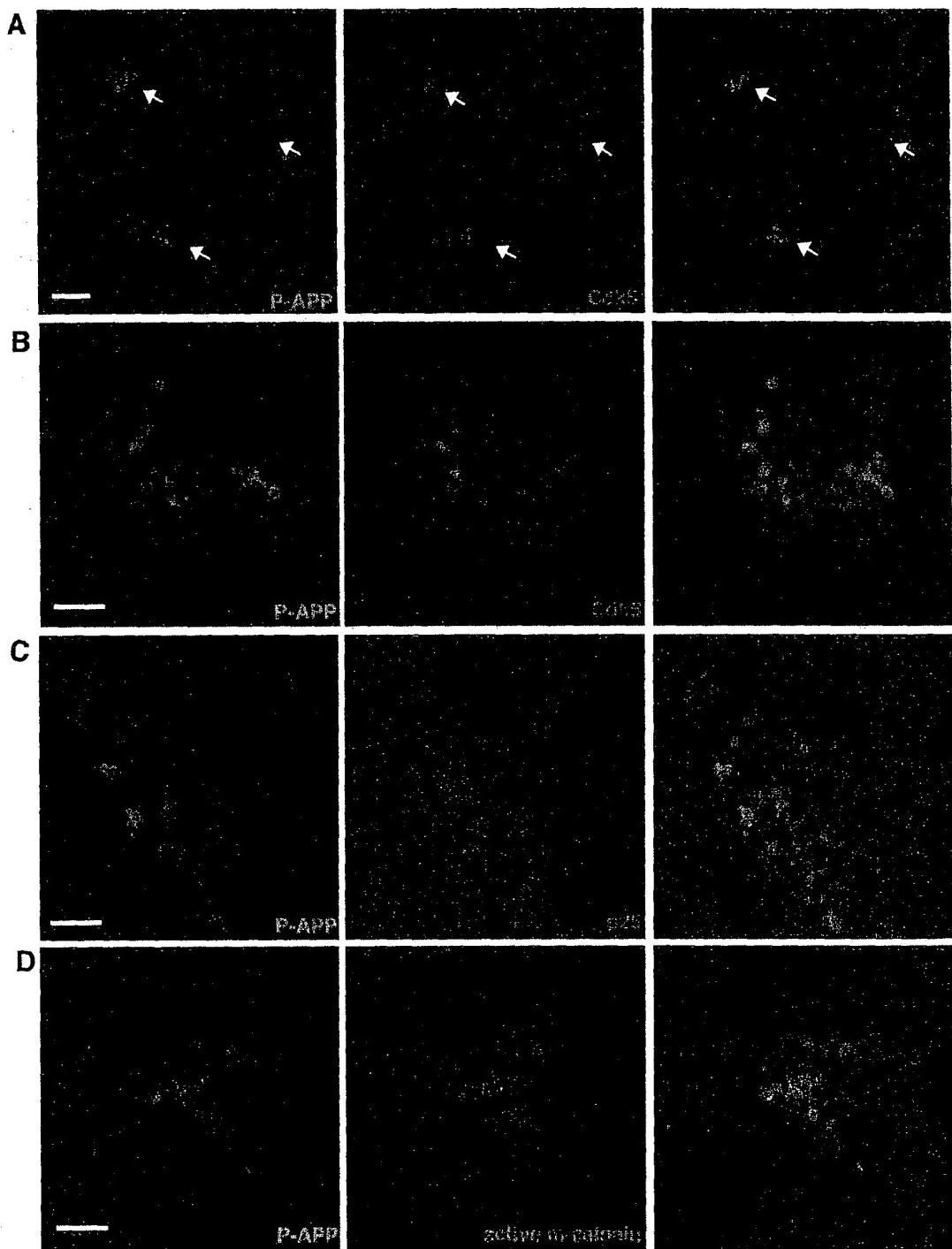
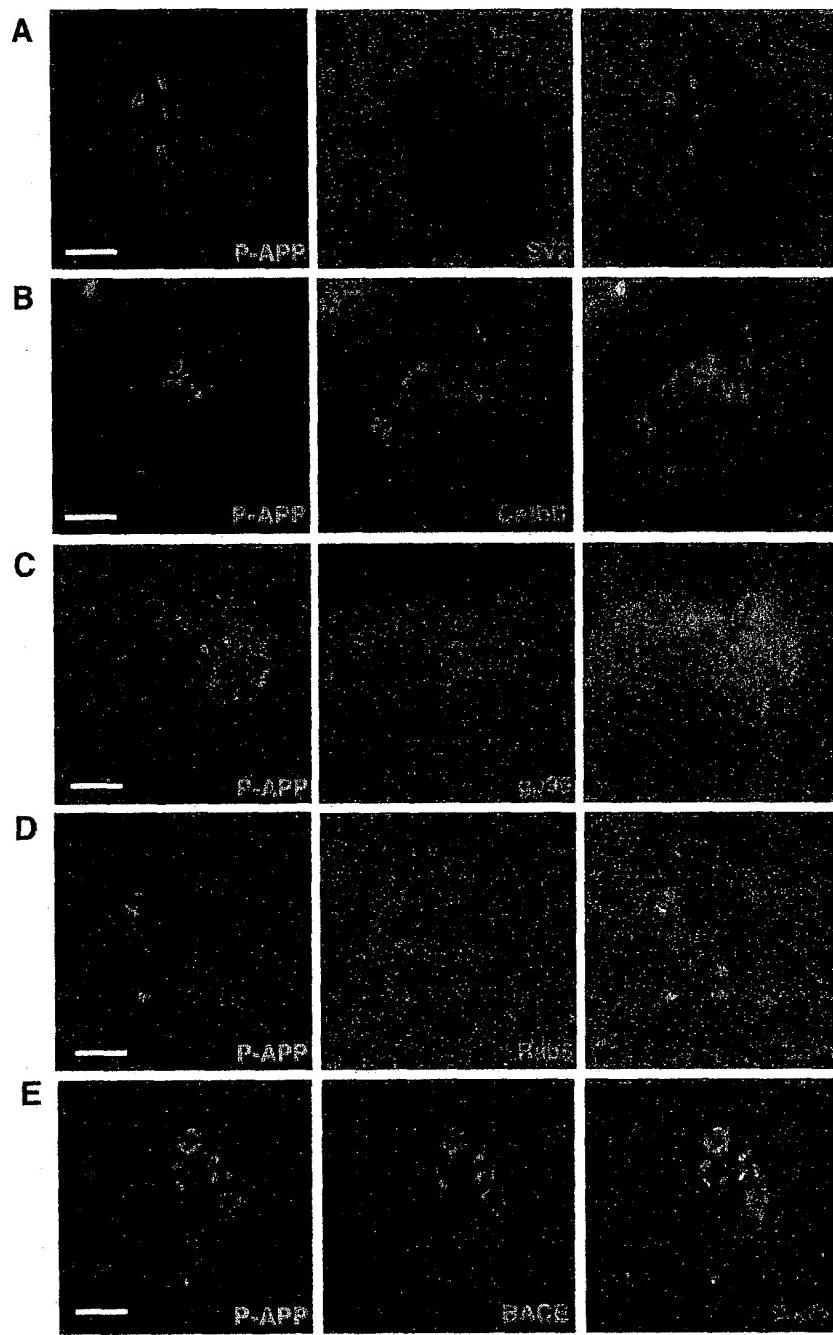
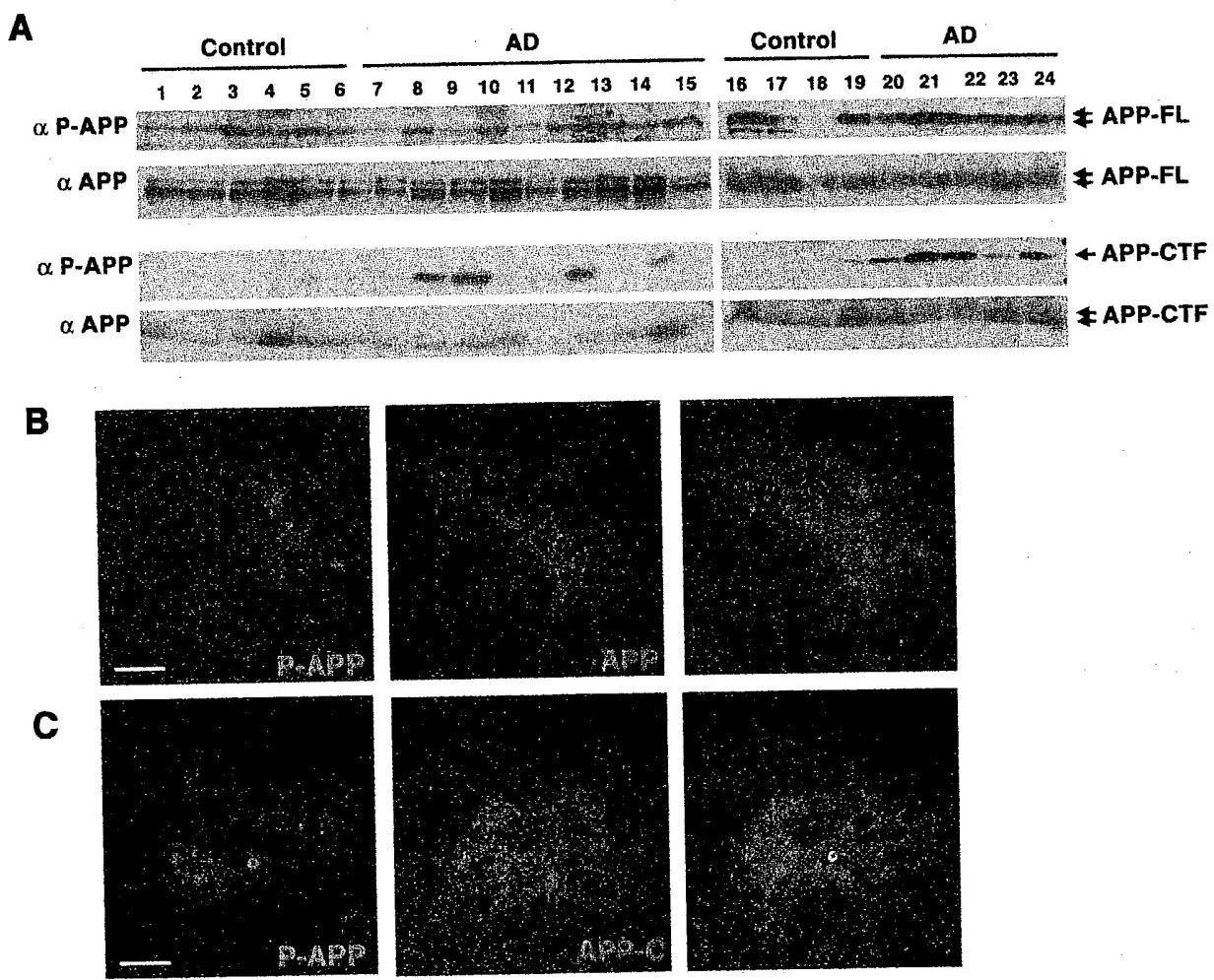


Figure 4



**Figure 5**



**Figure 6**

Applicants: Li-Huei Tsai et al.  
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D

$\beta$ -cleavage site       $\alpha$ -cleavage site

↓                          ↓

596 601                611                621                631

DAEF RHDSGYEVHH QKLVFFAEDV GSNKGAIIGL MVGGVVIAATV

(596-612) \_\_\_\_\_

(596-625) \_\_\_\_\_

(602-612) \_\_\_\_\_

(602-625) \_\_\_\_\_

(613-649) \_\_\_\_\_

641                651                661                671                681                691

IVITLVMLKK KQYTSIHGV VEVDAAVTPE ERHLSKMQN GYENPTYKFF EQMQN

(613-649) \_\_\_\_\_

(650-672) \_\_\_\_\_

(650-676) \_\_\_\_\_

(651-672) \_\_\_\_\_

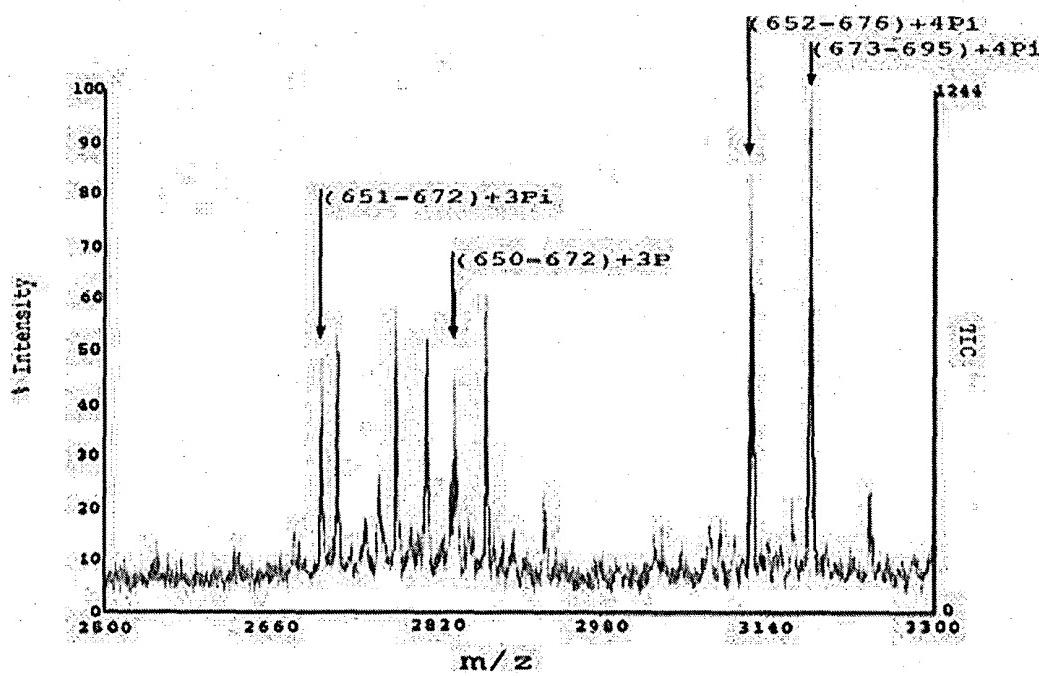
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(652-672) \_\_\_\_\_

(673-695) \_\_\_\_\_

Figure 6 (cont)

E



**Figure 6 (cont)**

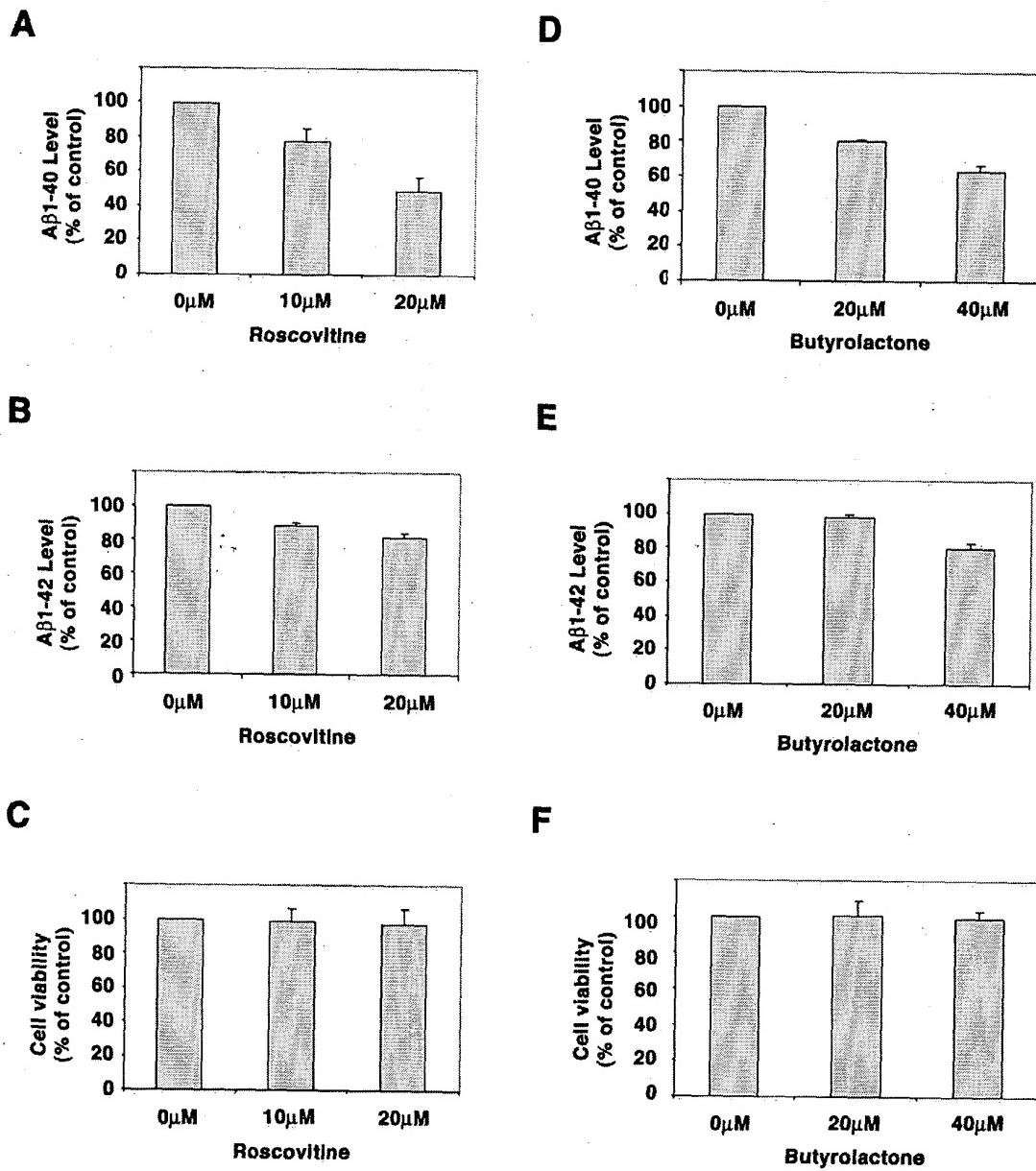
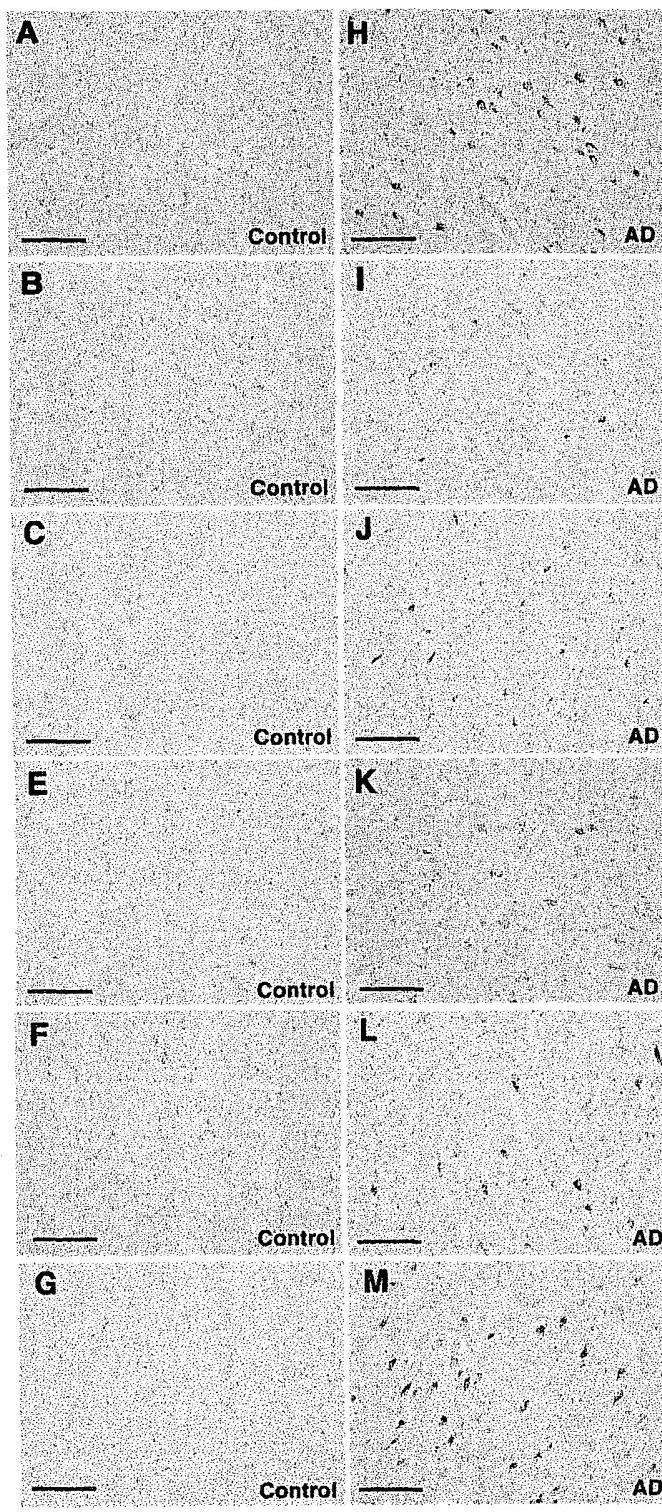
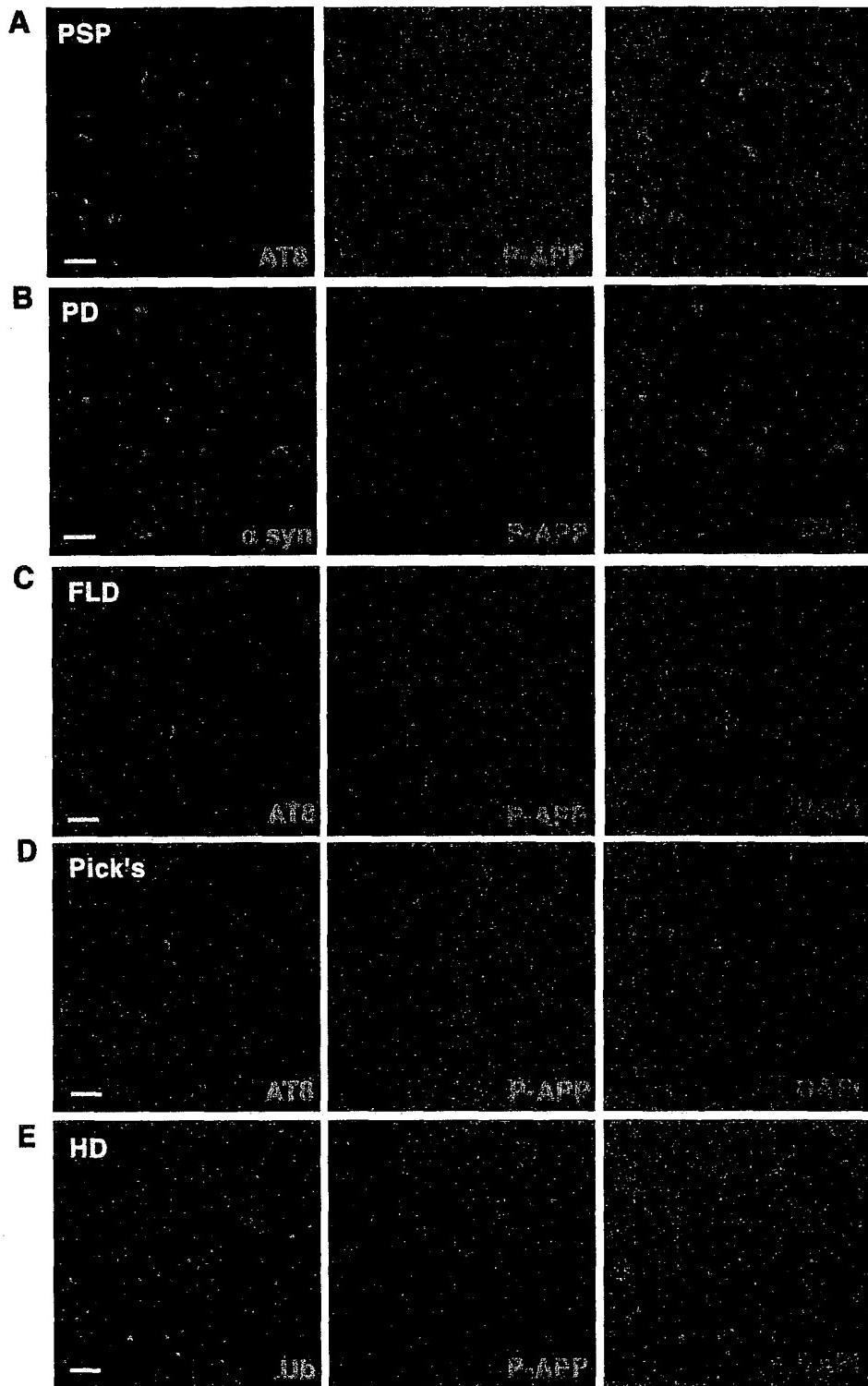


Figure 7

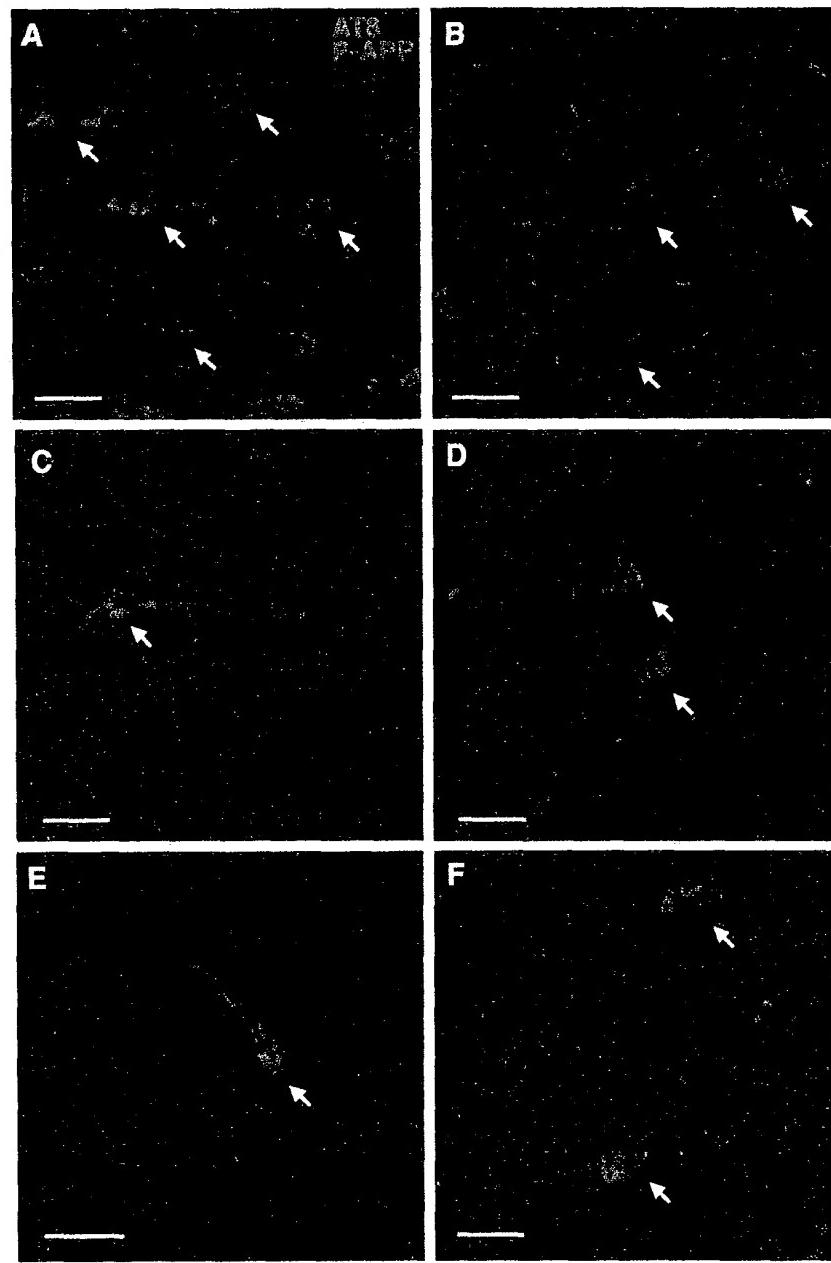


**Figure 8**

Applicants: Li-Huei Tsai et al.  
"Compounds & Methods for Treating Neurodegenerative  
Disorders" Filed: July 24, 2003  
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**Figure 9**



**Figure 10**

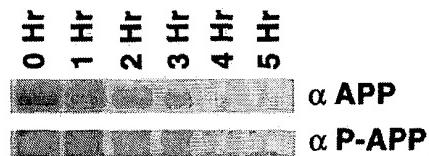
Applicants: Li-Huei Tsai et al.  
"Compounds & Methods for Treating Neurodegenerative  
Disorders" Filed: July 24, 2003  
Atty.: John P. Iwanicki, Reg. No. 34,628  
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**Figure 11**

**A**

**Heavy Membranes**



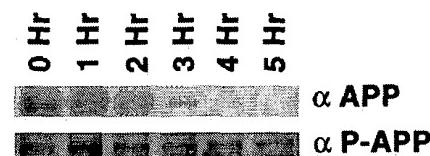
**B**

**Light Membranes**

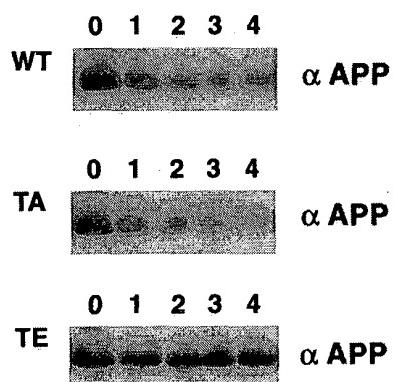


**C**

**Microsomes**

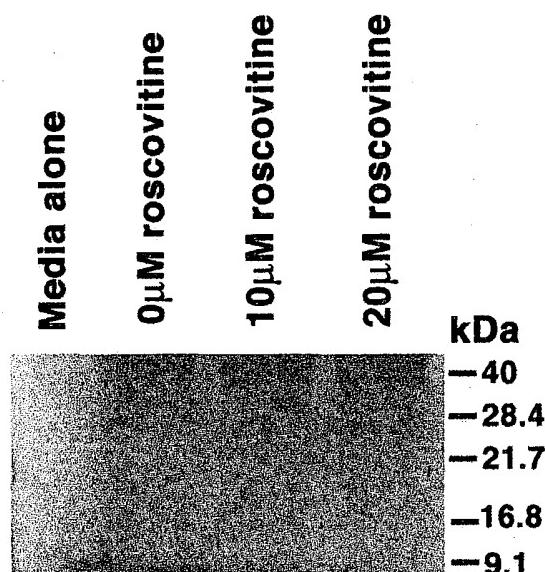


**D**



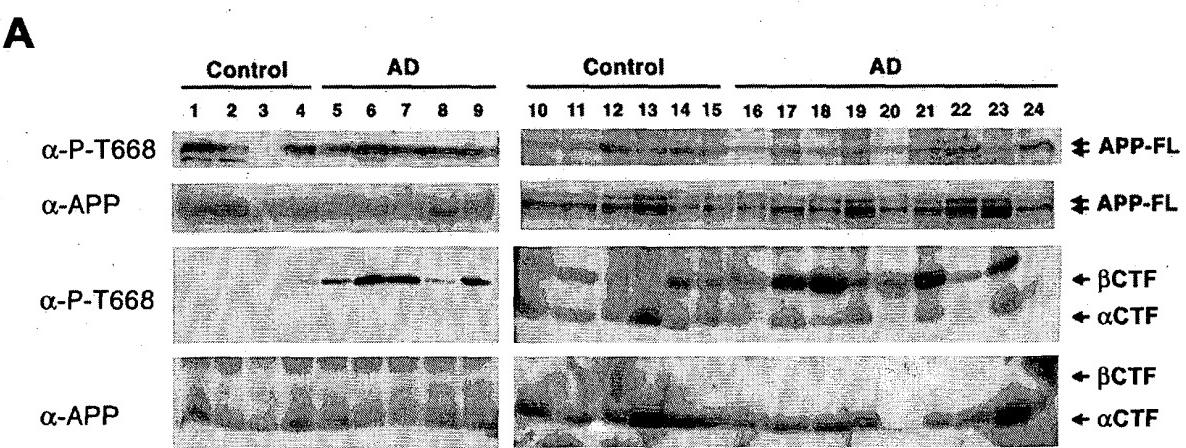
**Figure 12**

Applicants: Li-Huei Tsai et al.  
"Compounds & Methods for Treating Neurodegenerative  
Disorders" Filed: July 24, 2003  
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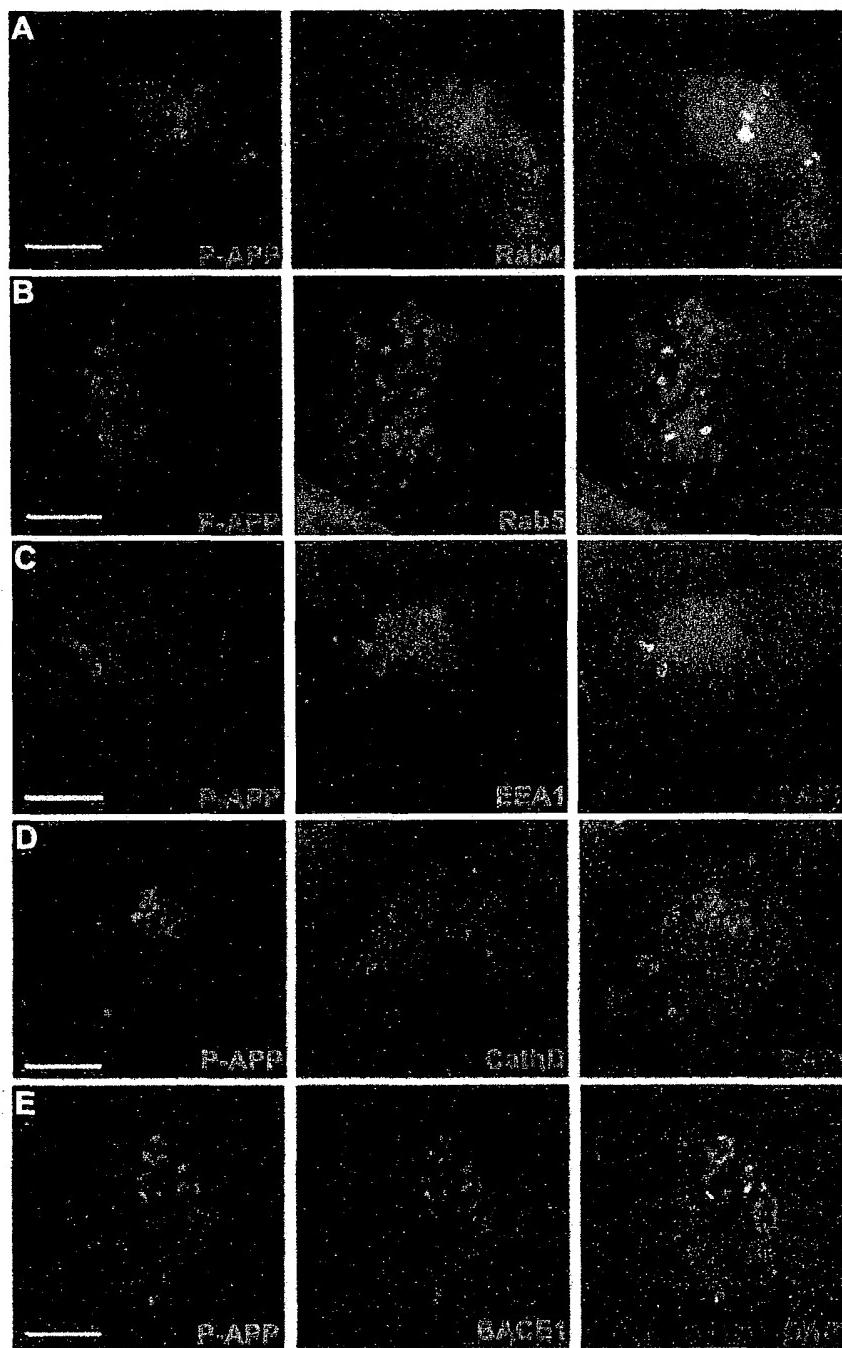


**Figure 13**

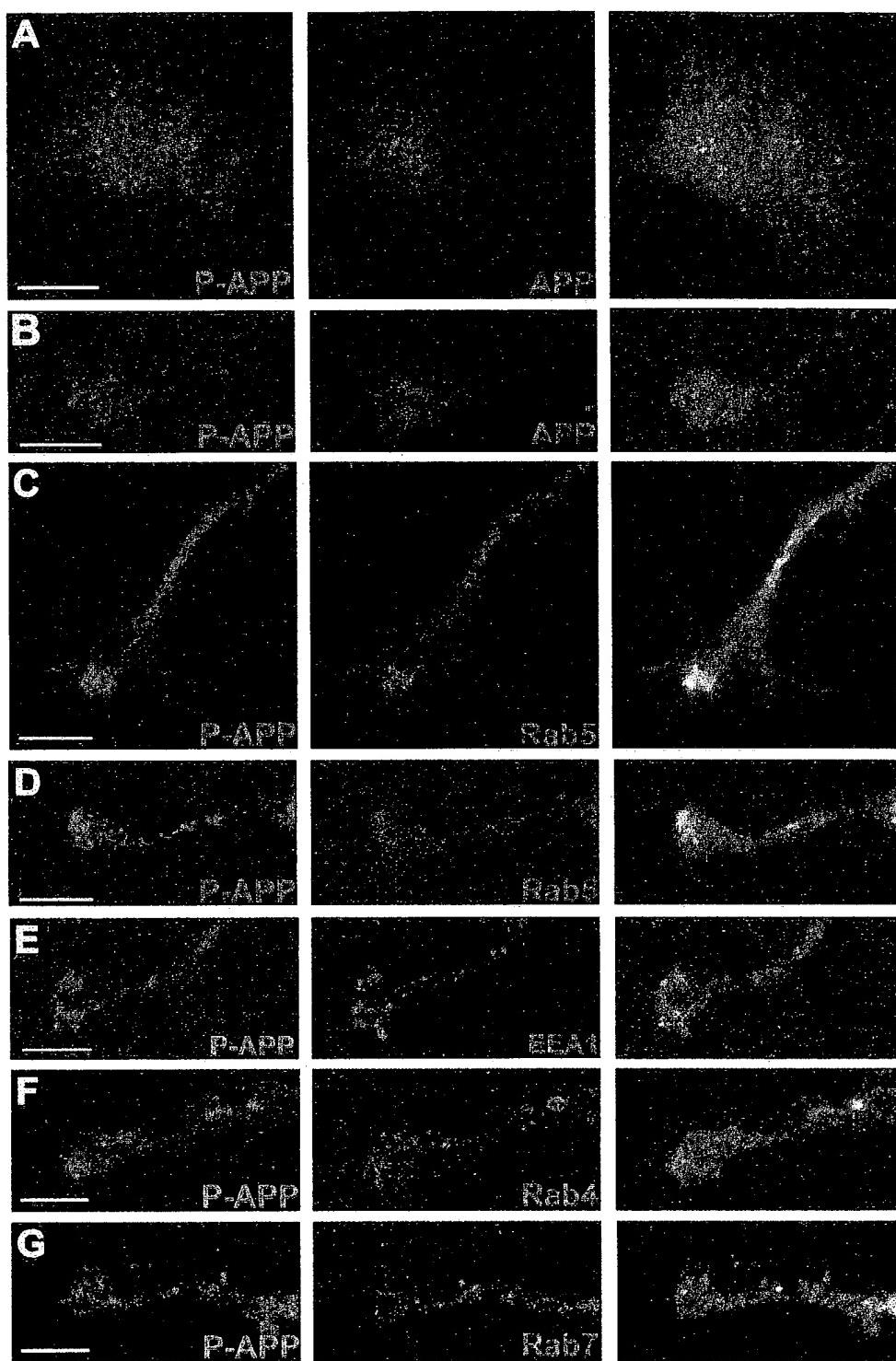
Applicants: Li-Huei Tsai et al.  
"Compounds & Methods for Treating Neurodegenerative  
Disorders" Filed: July 24, 2003  
Atty.: John P. Iwanicki, Reg. No. 34,628  
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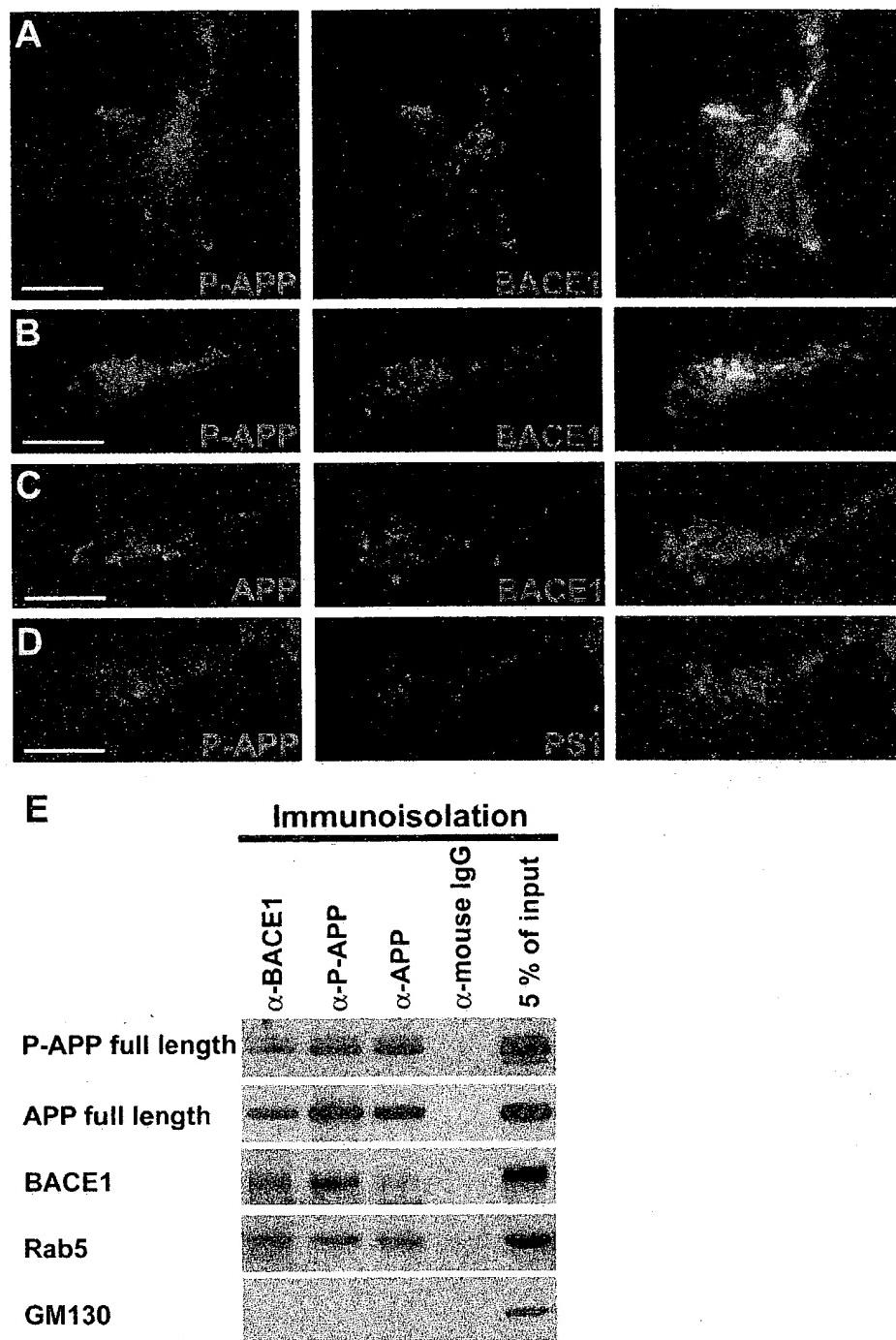
**Figure 14**



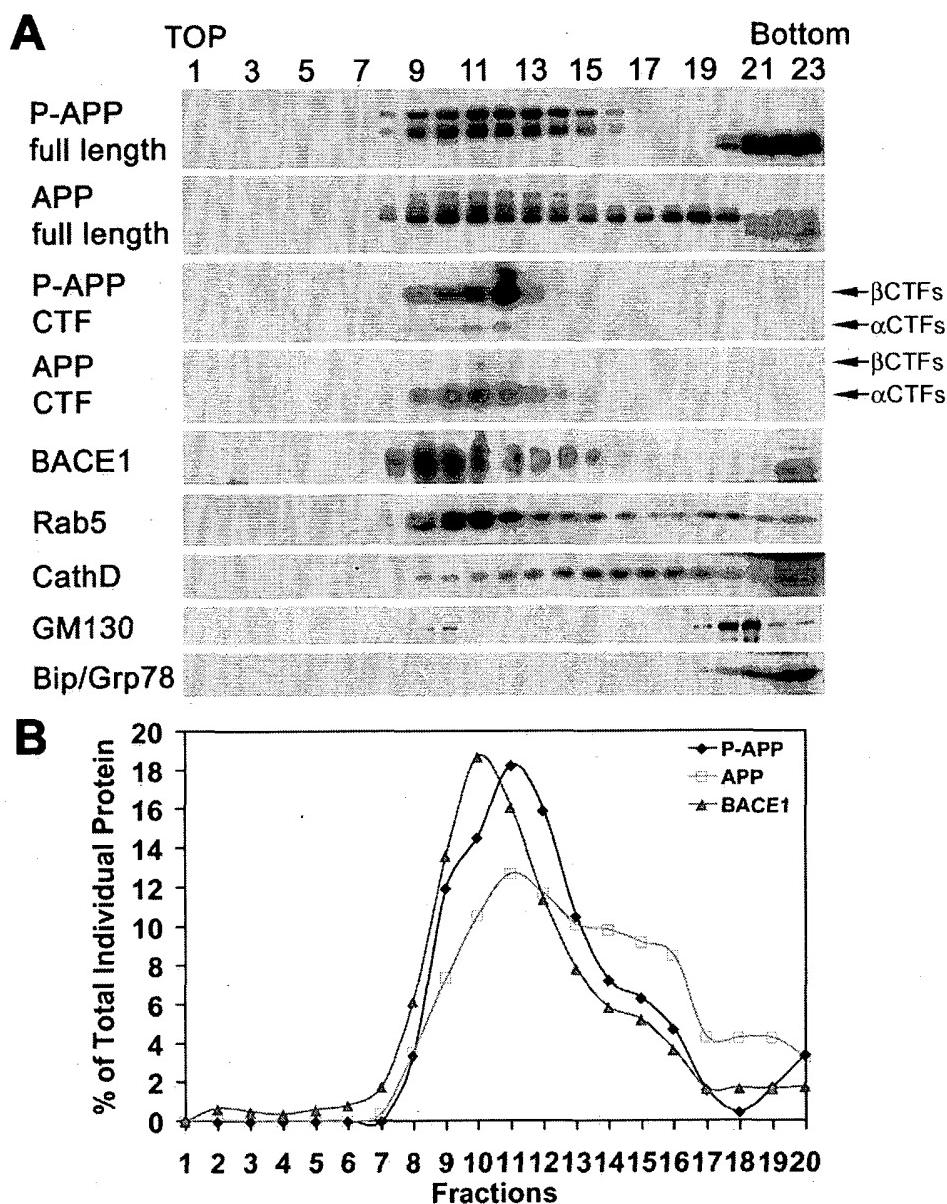
**Figure 15**



**Figure 16**

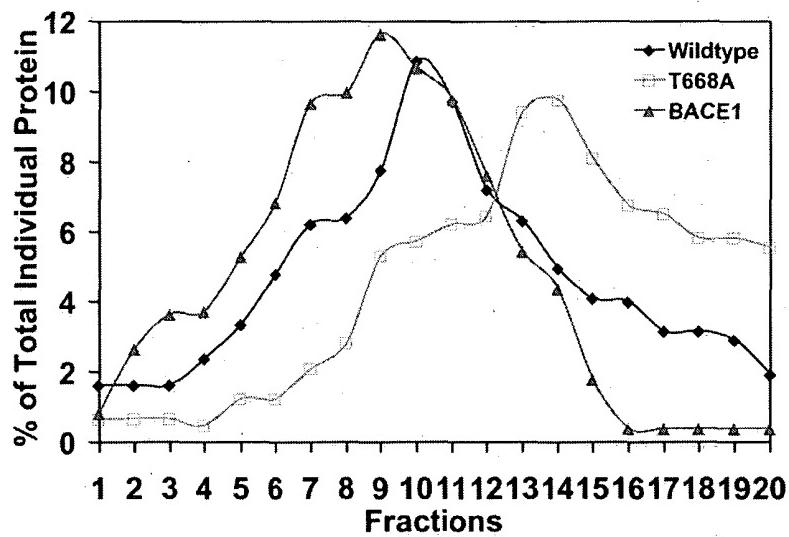


**Figure 17**



**Figure 18**

C



D

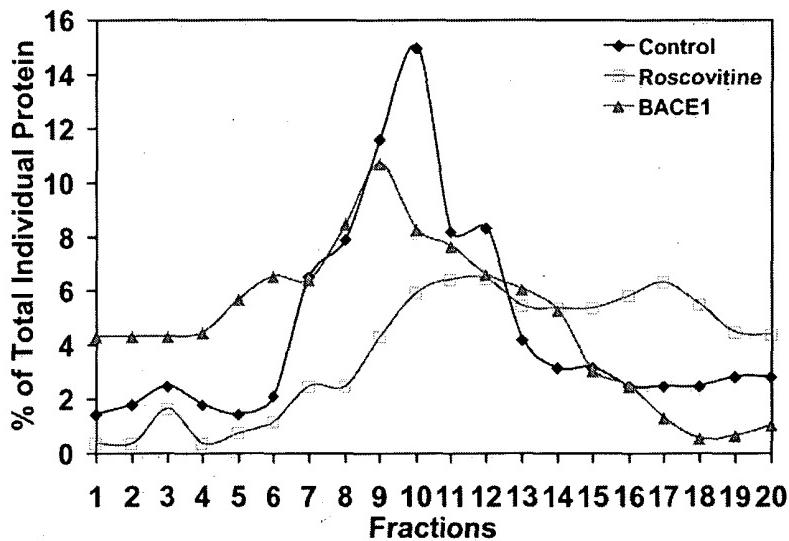
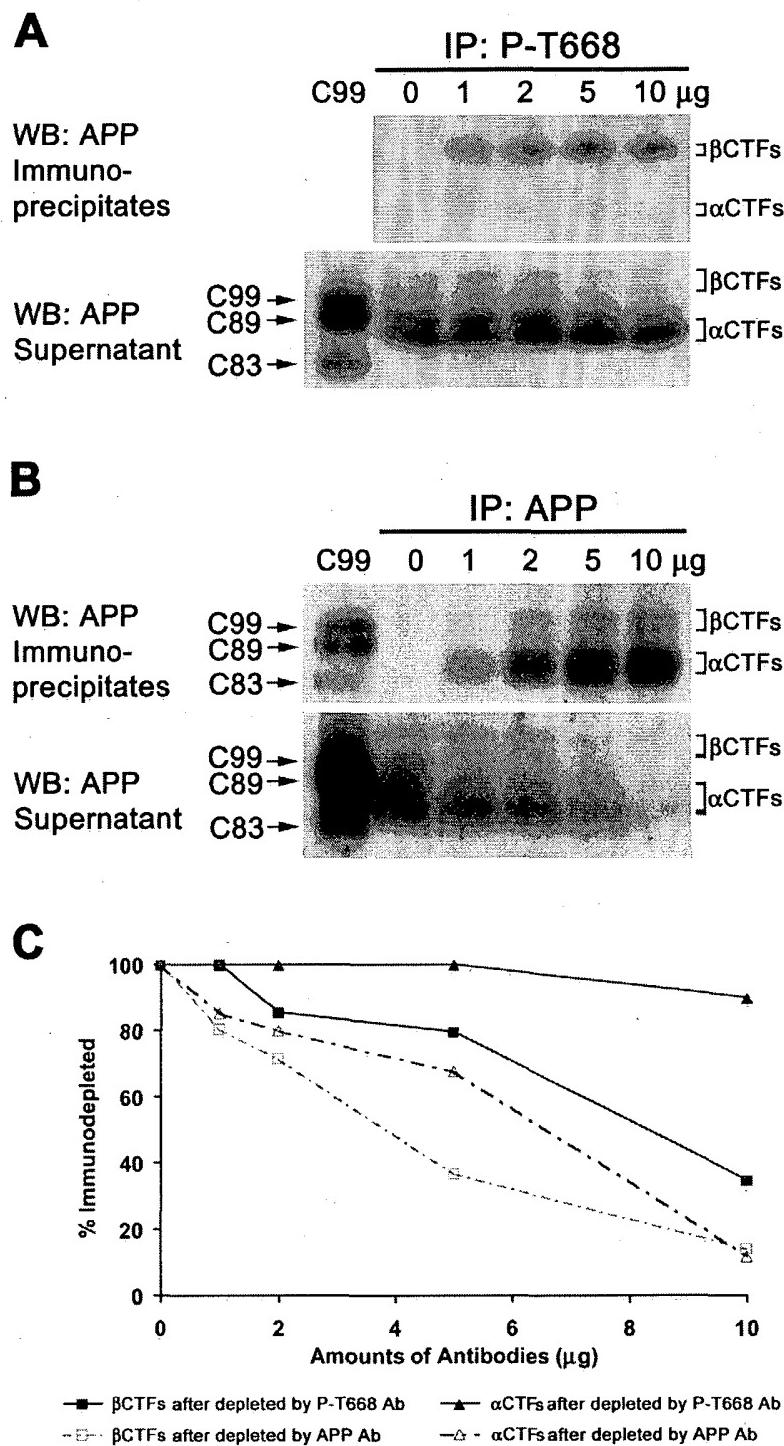


Figure 18 (cont)



**Figure 19**

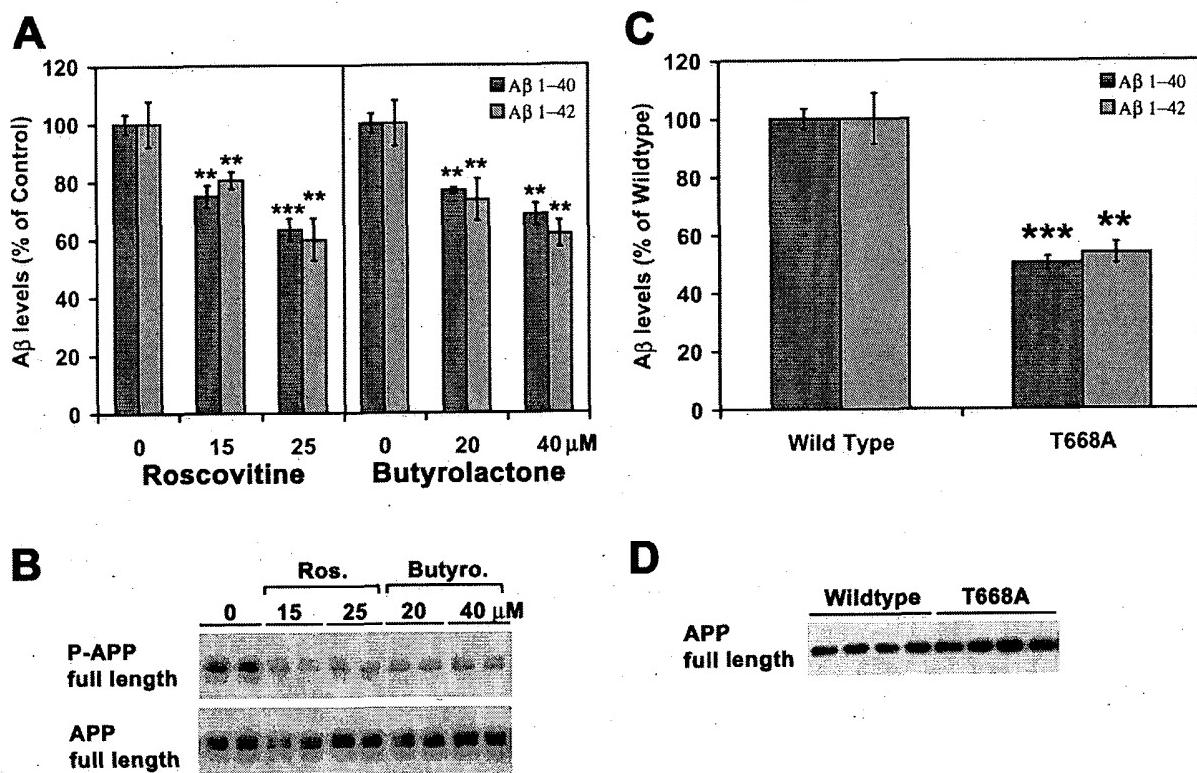
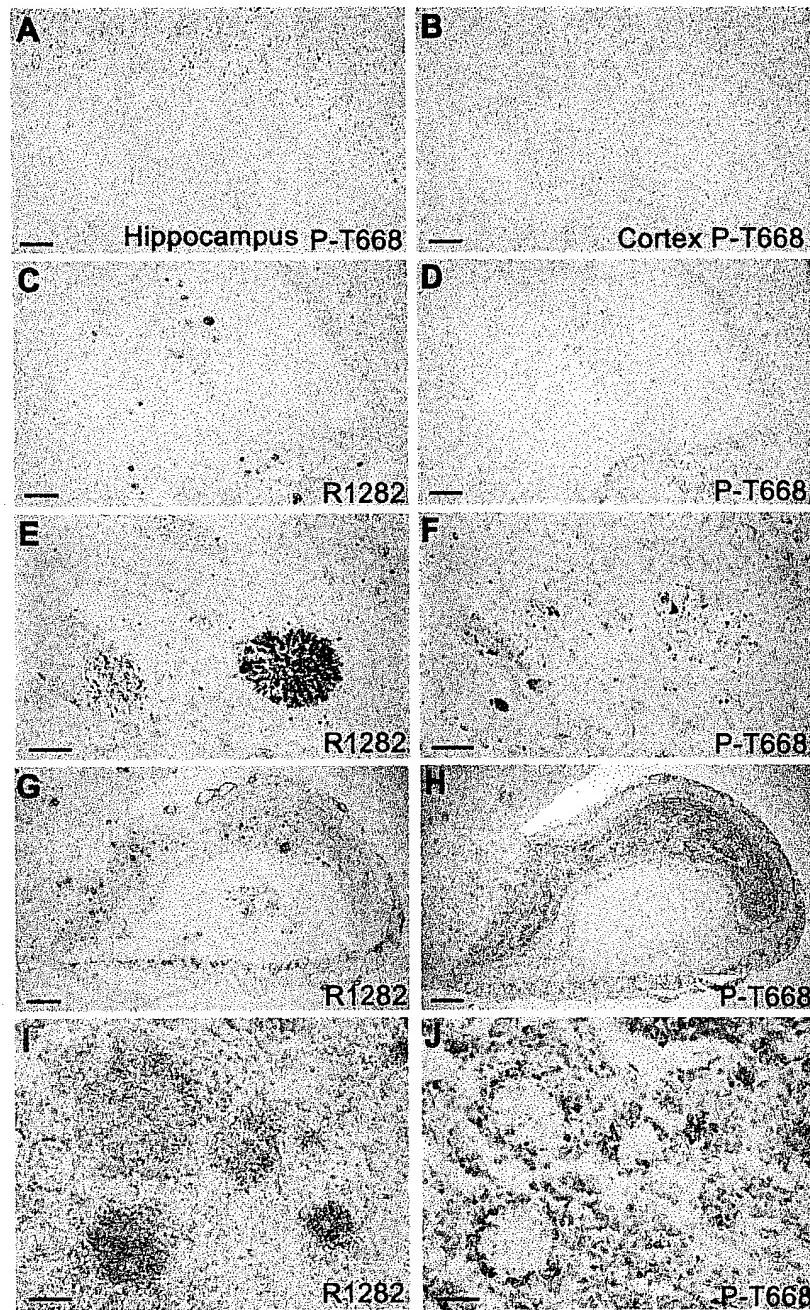
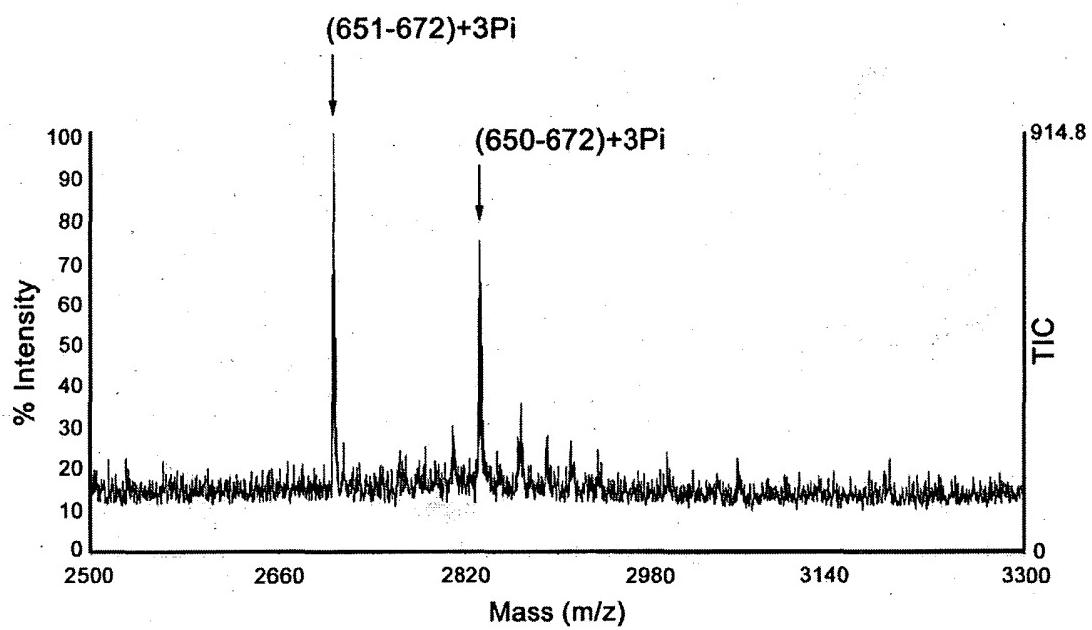


Figure 20



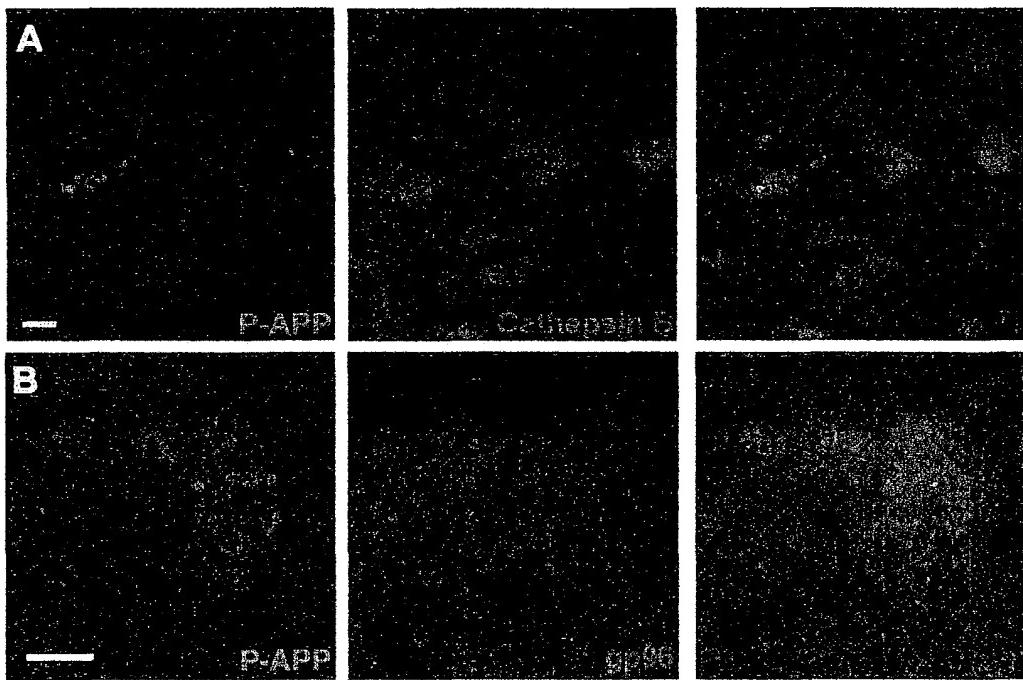
**Figure 21**

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Disorders" Filed: July 24, 2003  
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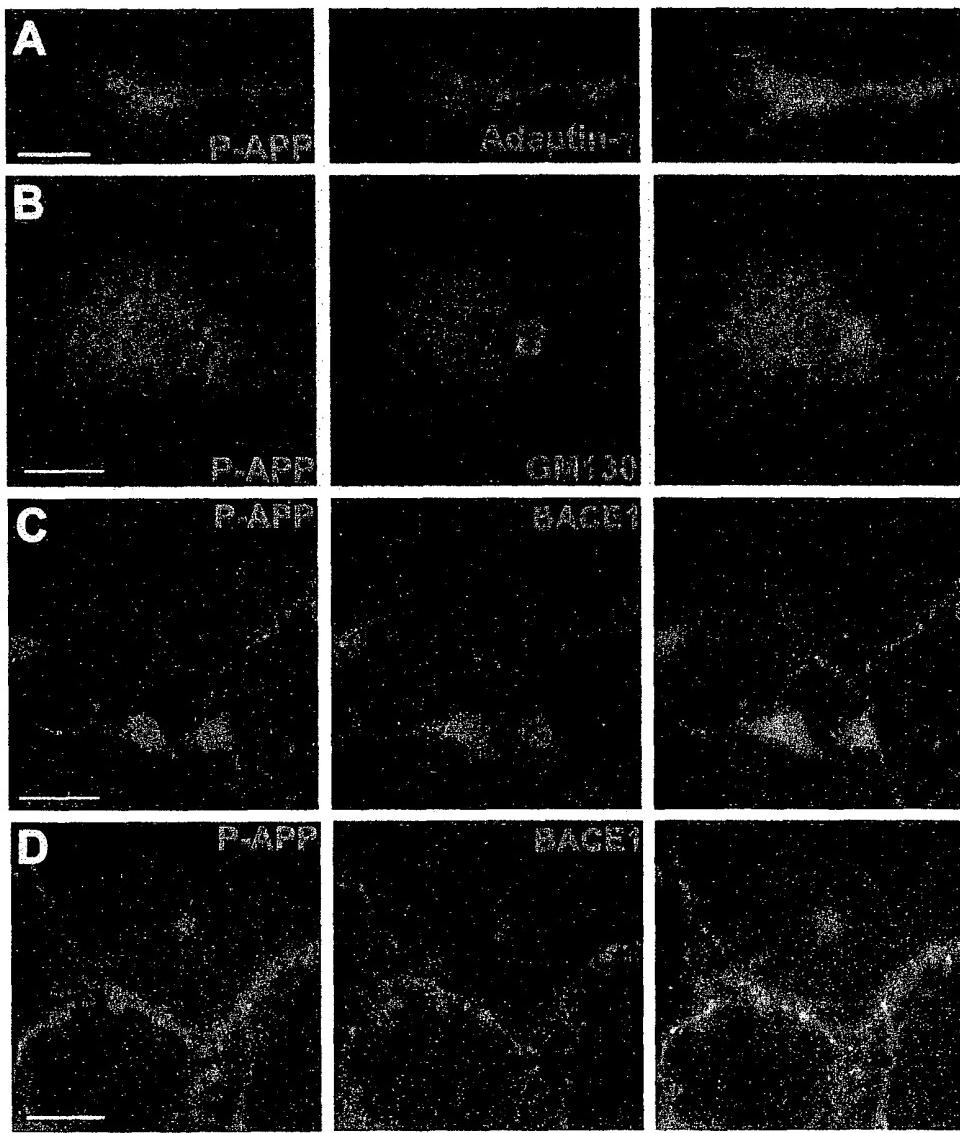


**Figure 22**

Applicants: Li-Huei Tsai et al.  
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Disorders" Filed: July 24, 2003  
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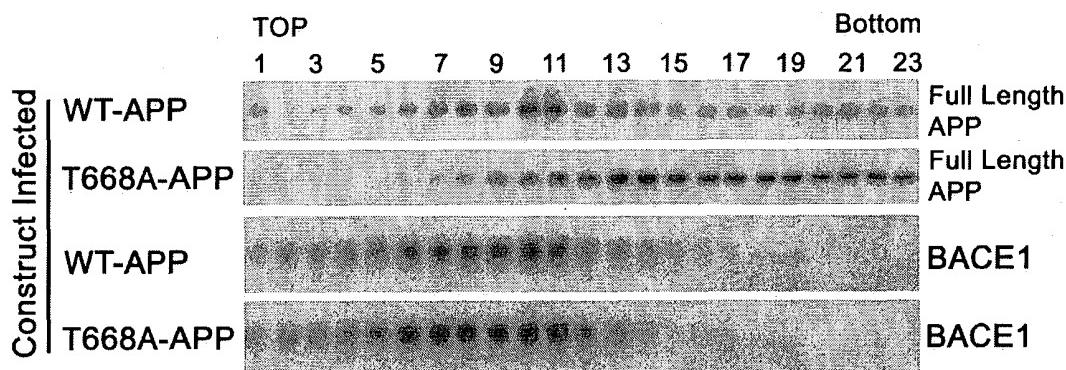


**Figure 23**

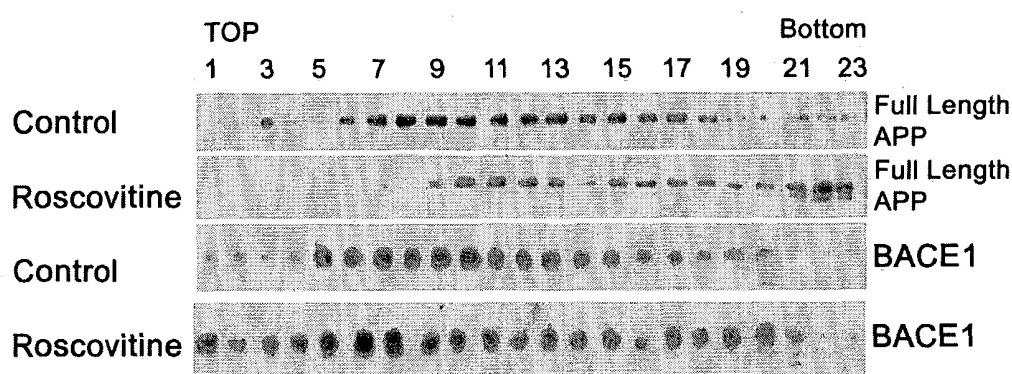


**Figure 24**

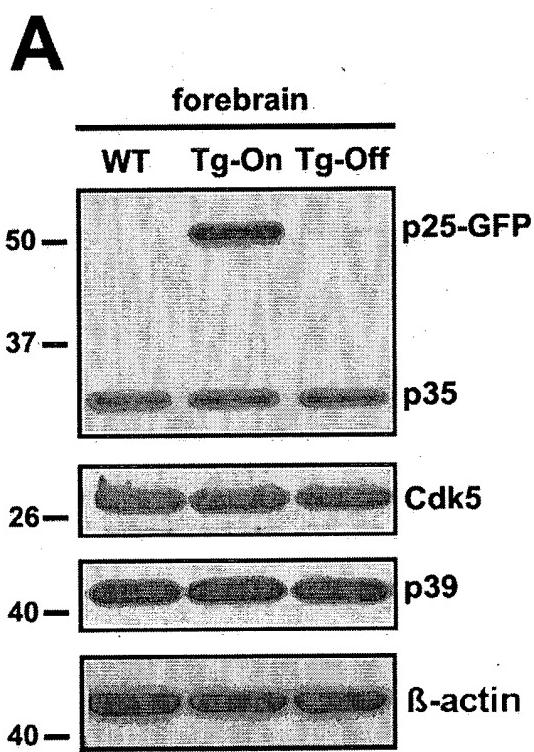
**A**



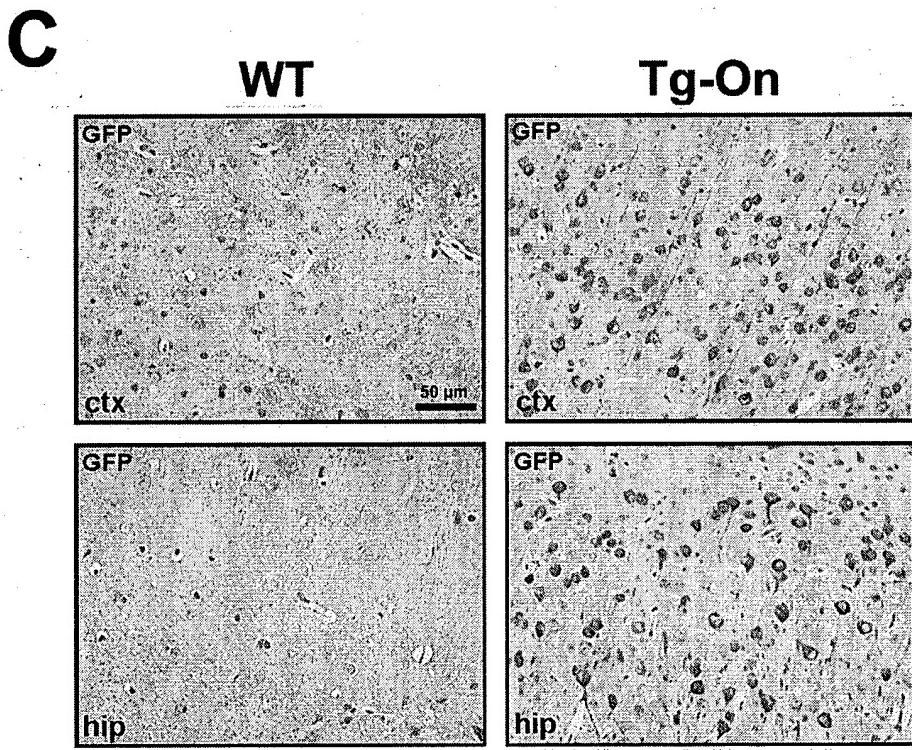
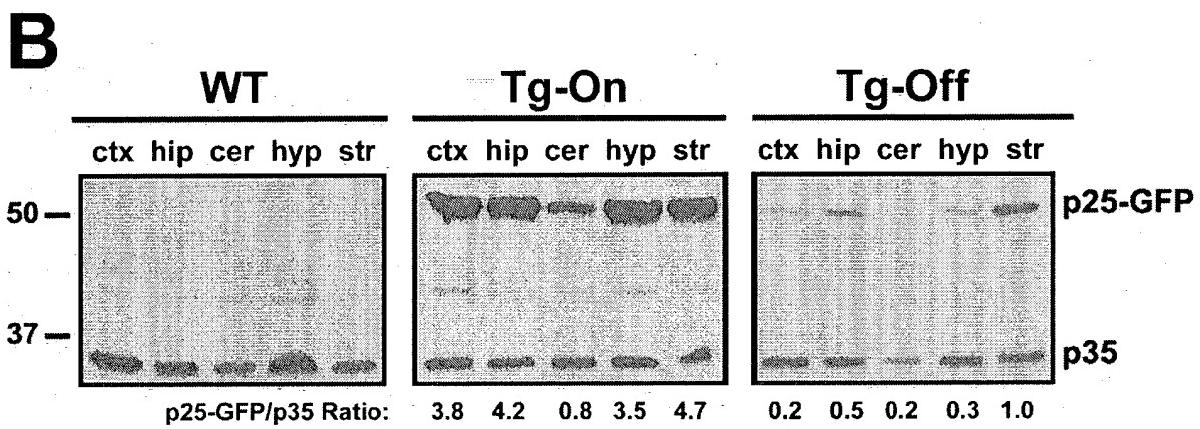
**B**



**Figure 25**



**Figure 26**



**Figure 26 (cont)**

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Attorney Docket No. 10498-00054 SHEET 32 OF 58

A

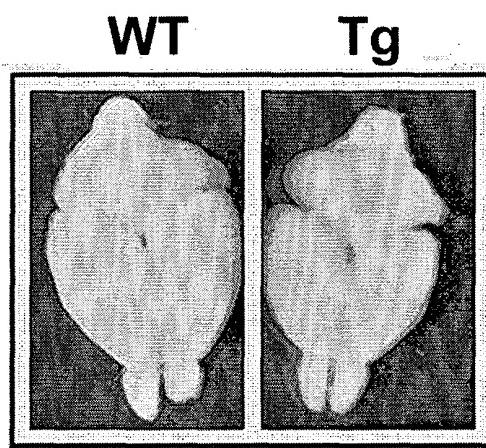


Figure 27

B

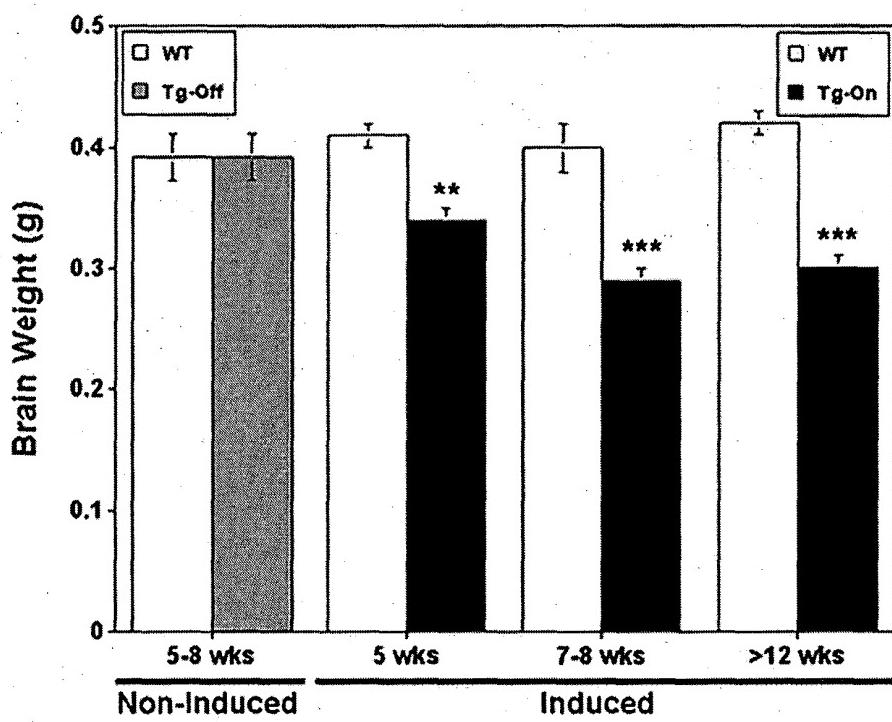


Figure 27 (cont)

C

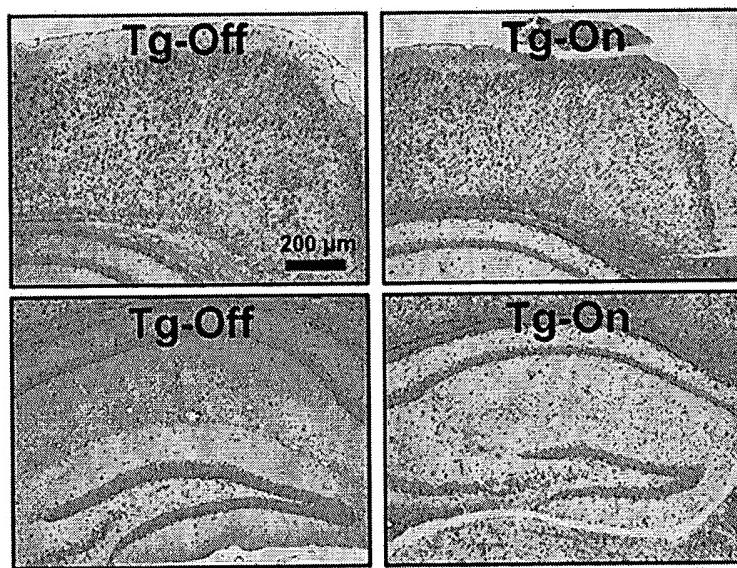


Figure 27 (cont)

D

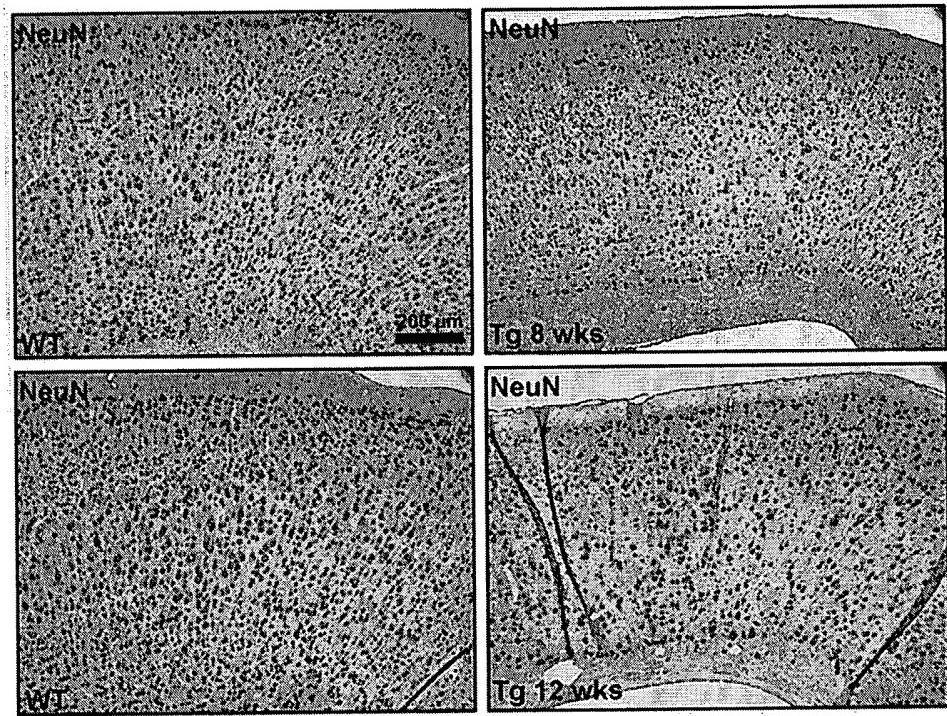


Figure 27 (cont)

Applicants: Li-Huei Tsai et al.  
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Disorders" Filed: July 24, 2003  
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E

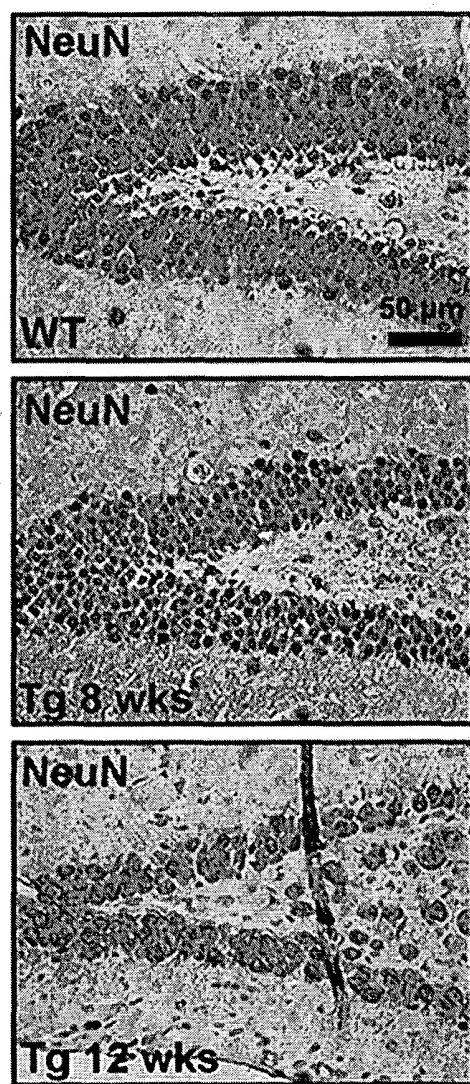
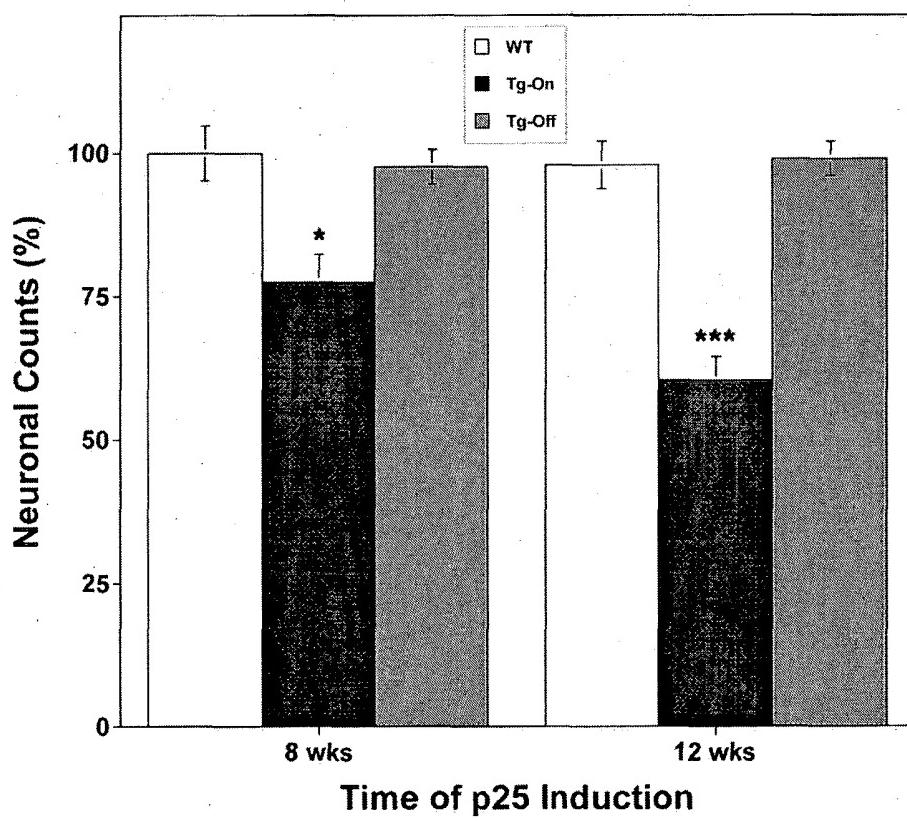


Figure 27 (cont)

F



**Figure 27 (cont)**

G

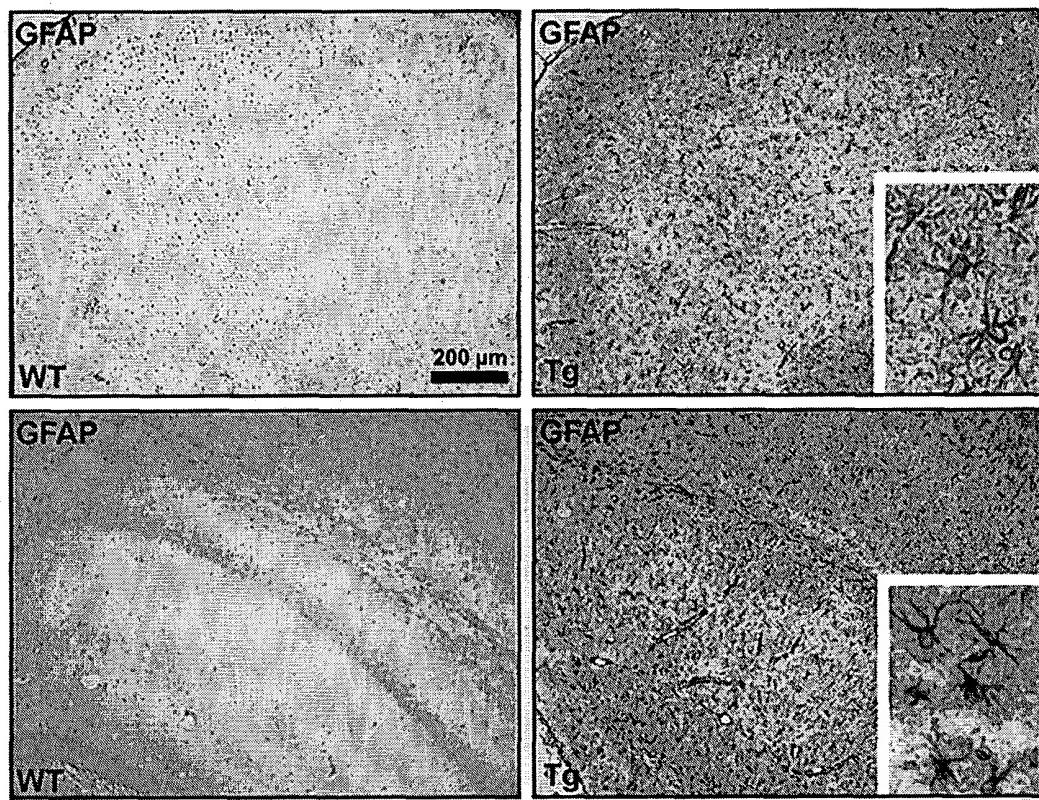


Figure 27 (cont)

H

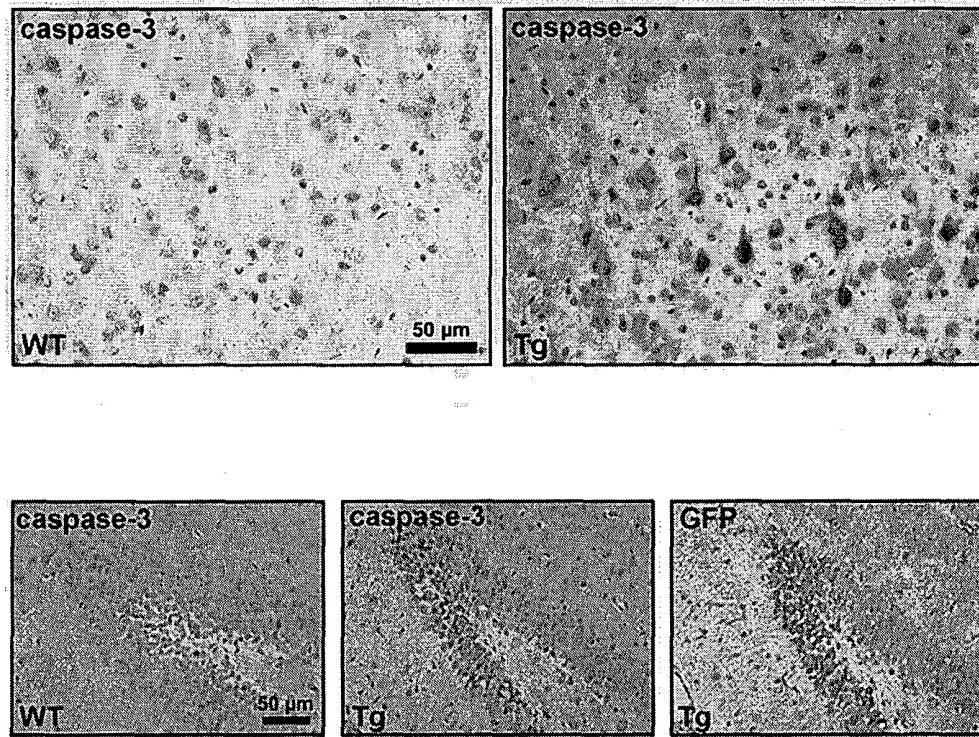


Figure 27 (cont)

J

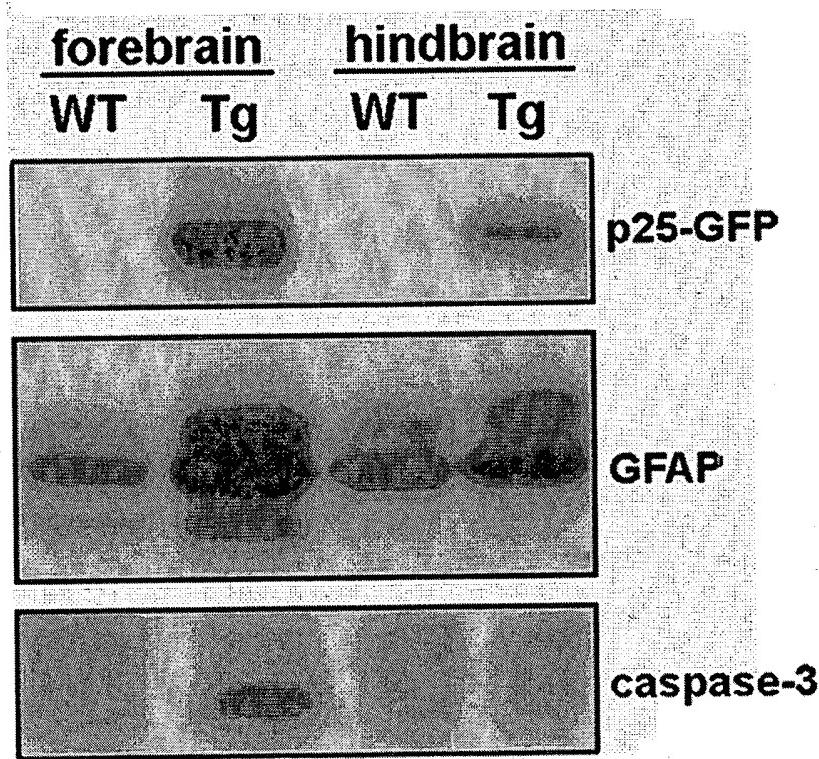


Figure 27 (cont)

A

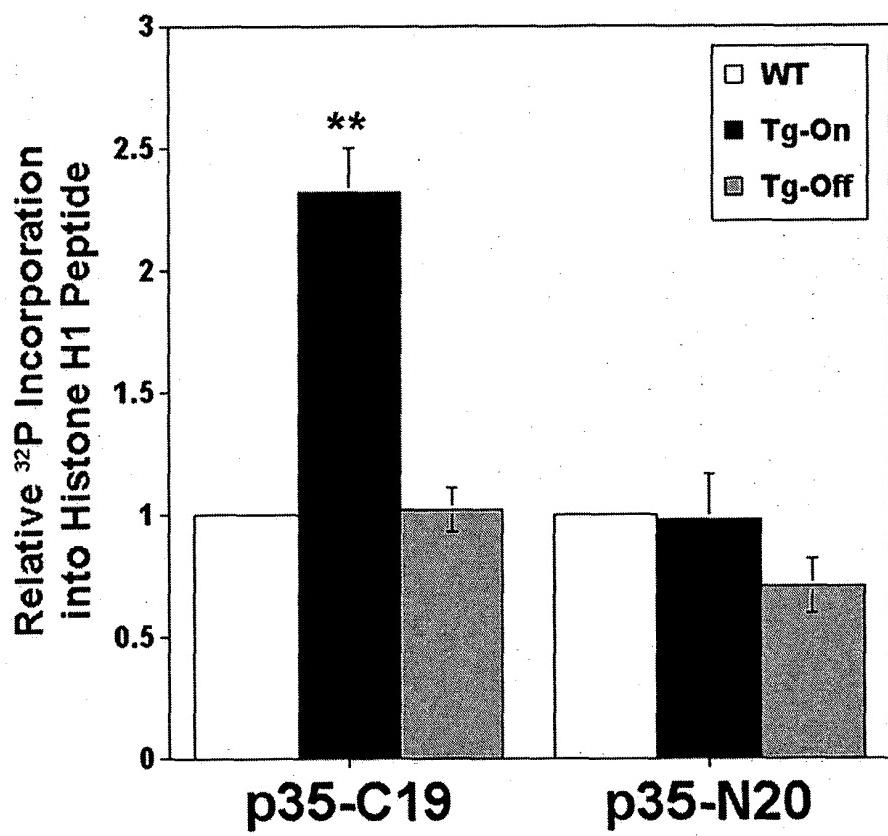
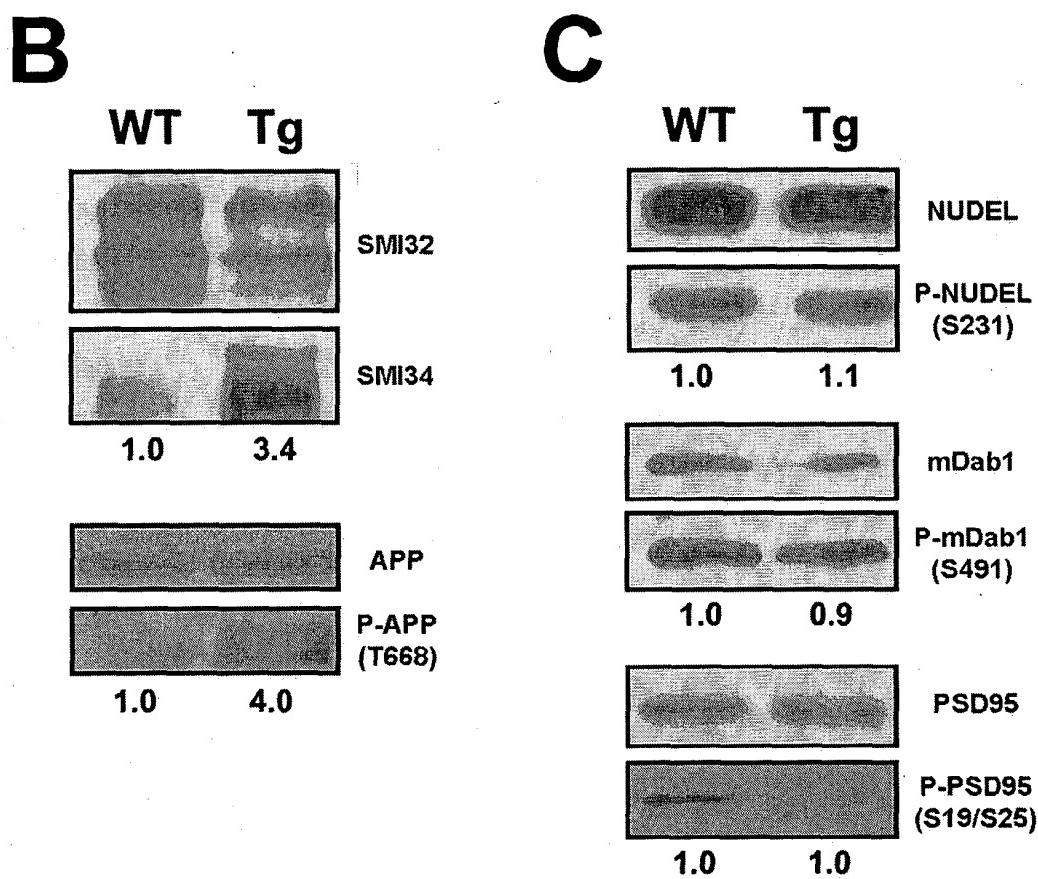
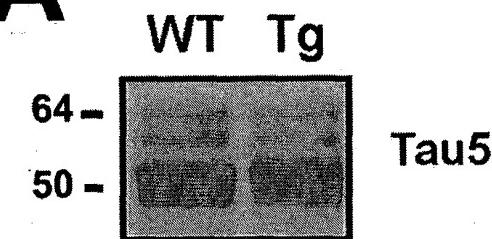


Figure 28



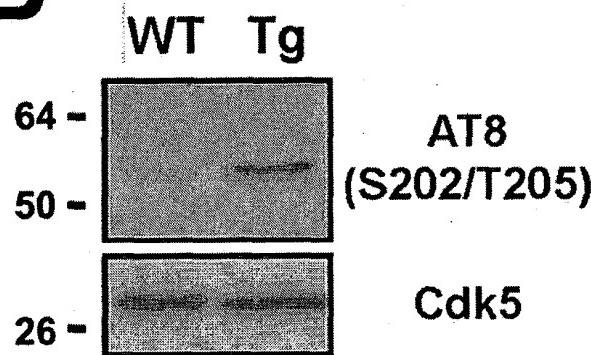
**Figure 28 (cont)**

**A**



Tau5

**B**

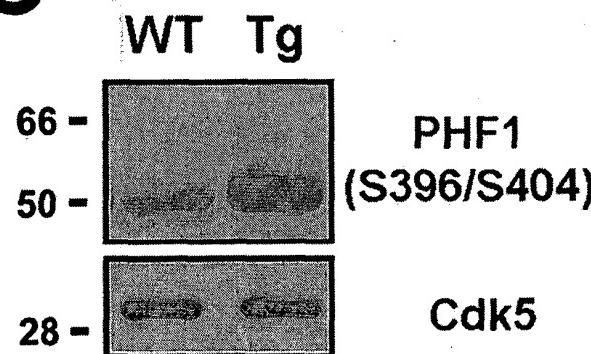


AT8

(S202/T205)

Cdk5

**C**

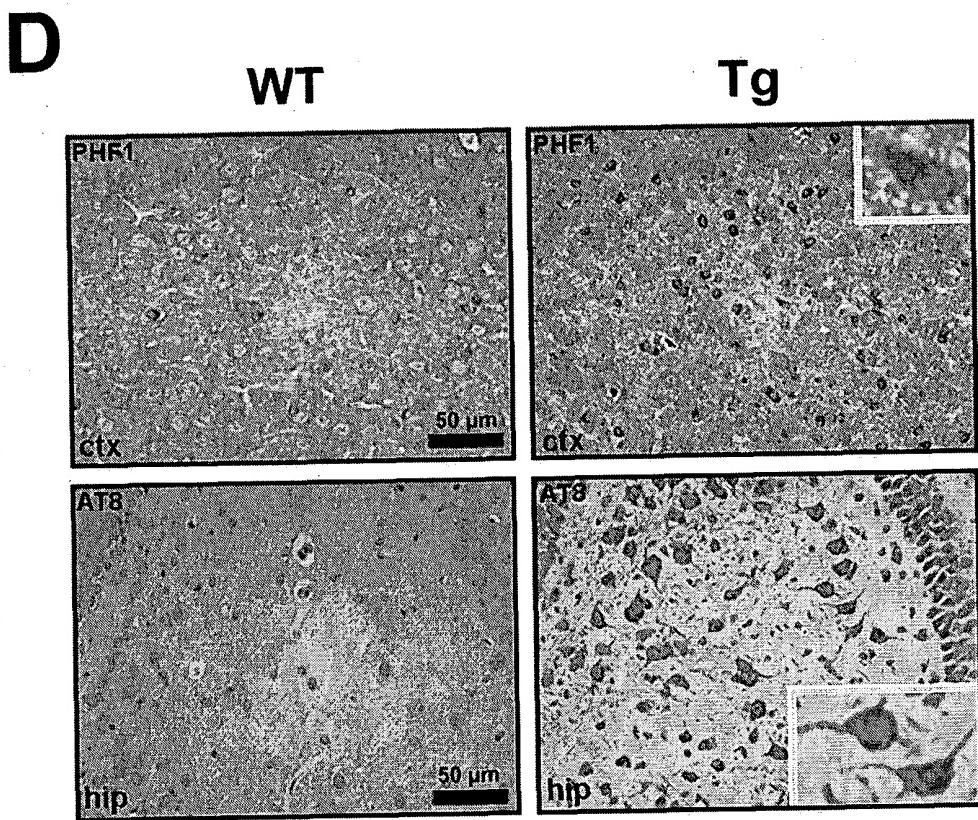


PHF1

(S396/S404)

Cdk5

**Figure 29**



**Figure 29 (cont)**

E

101  
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141 KGADGKTGAK IATPRGAASP AQKGTSNATR IPAKTTPSPK TPPGSGEPPK  
191 SGERSGYSSP GSPGTPGSRS RTPSLPTPPT REPKKVAVVR TPPKSPSASK  
241 SRLQTAPVPM PDLKNVRSKI GSTENLKHQP GGGKVQIINK KLDLSNVQSK  
291 CGSKDNIKHV PGGGSVQIVY KPVDLSKVTS KCGSLGNIHH KPGGGQVEVK  
341 SEKLDFKDRV QSKIGSLDNI THVPGGGNKK IETHKLTFRE NAKAKTDHGA  
391 EIVYKSPVVS GDTSPRHLSEN---

F

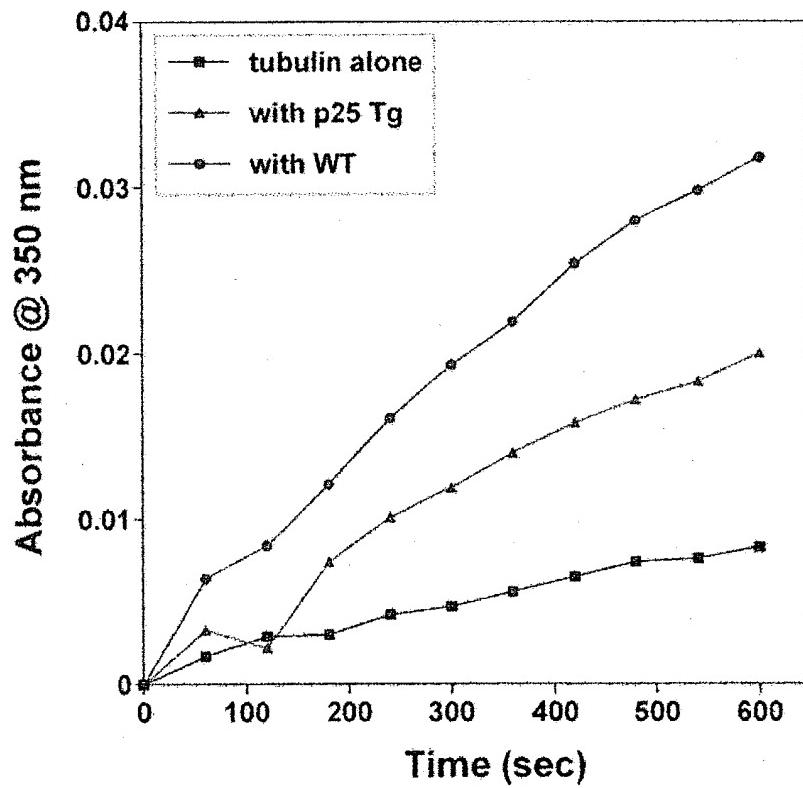
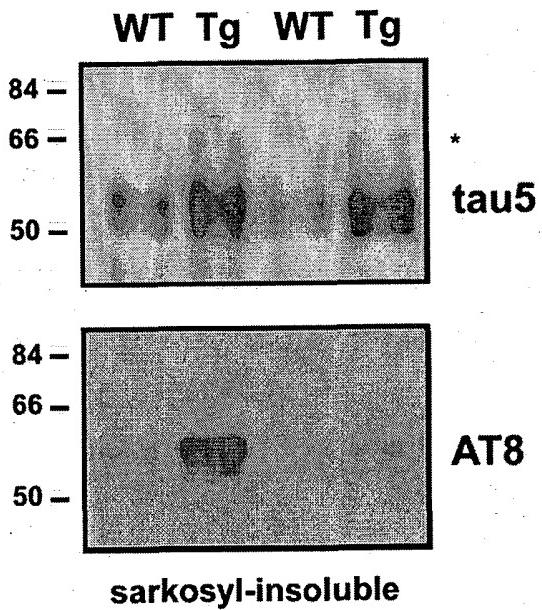


Figure 29 (cont)

A

12 wk    8 wk



B

15 wk

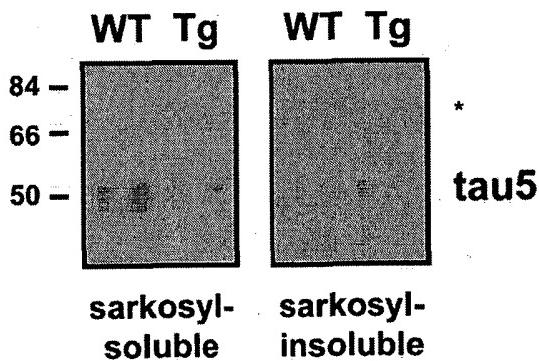
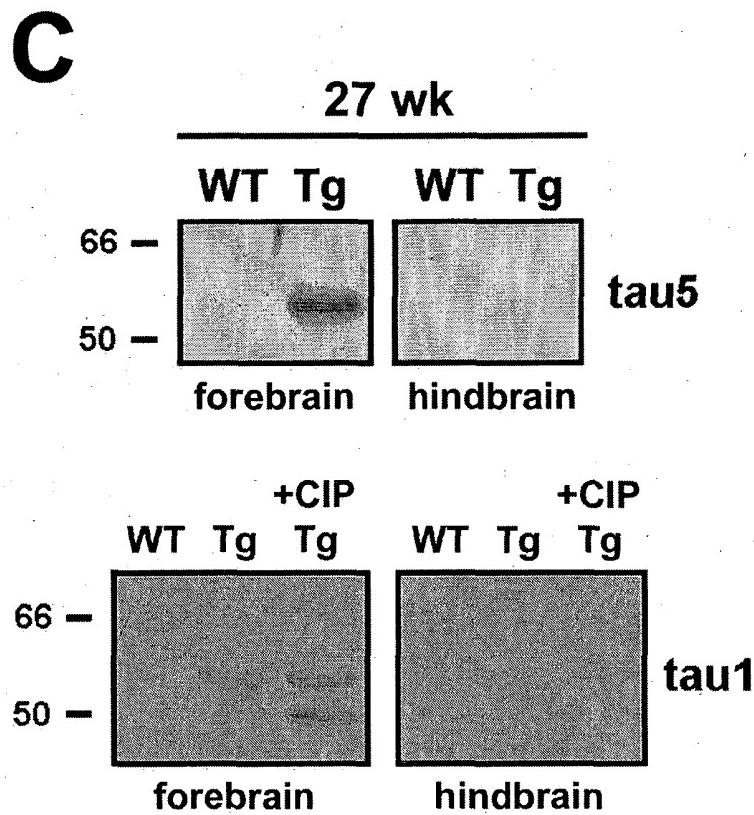
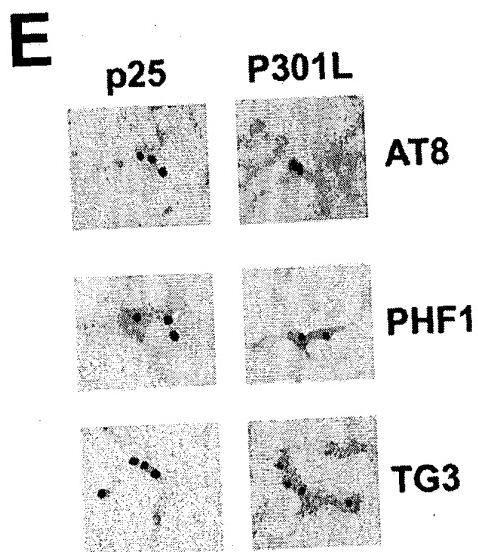
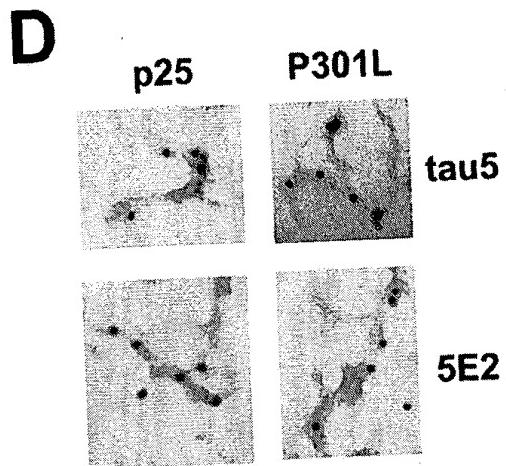


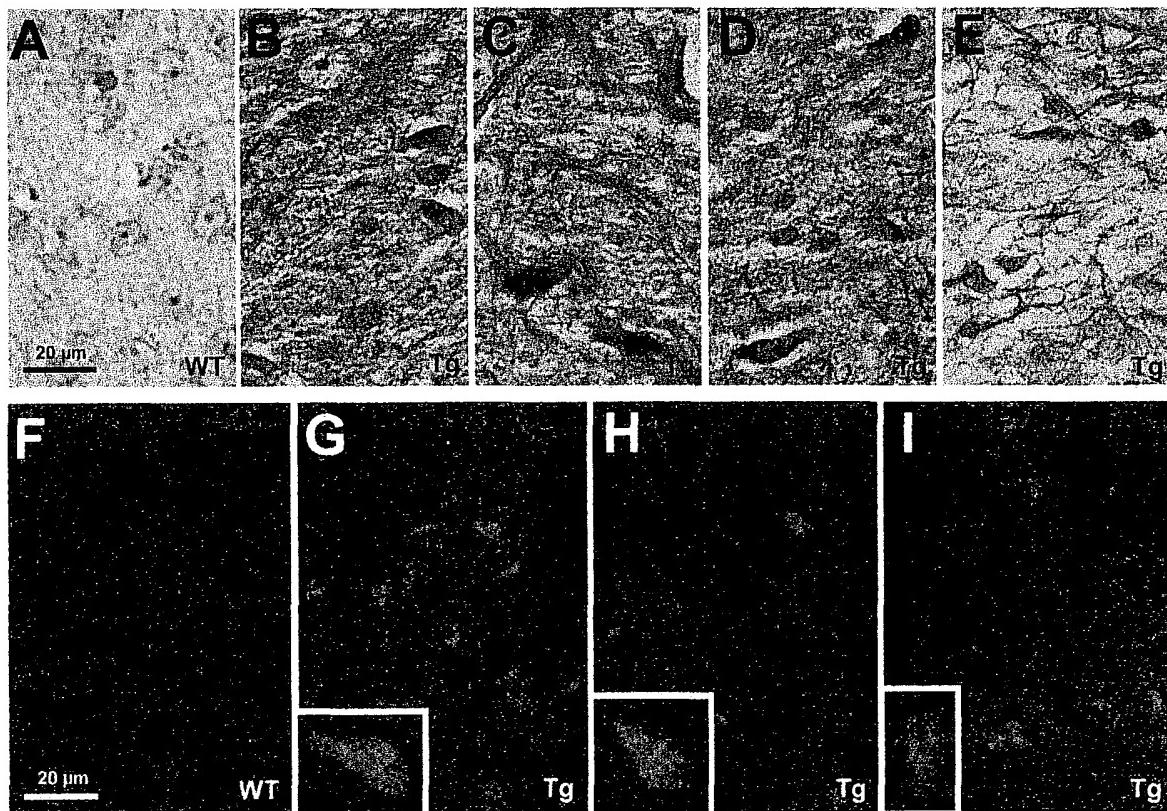
Figure 30



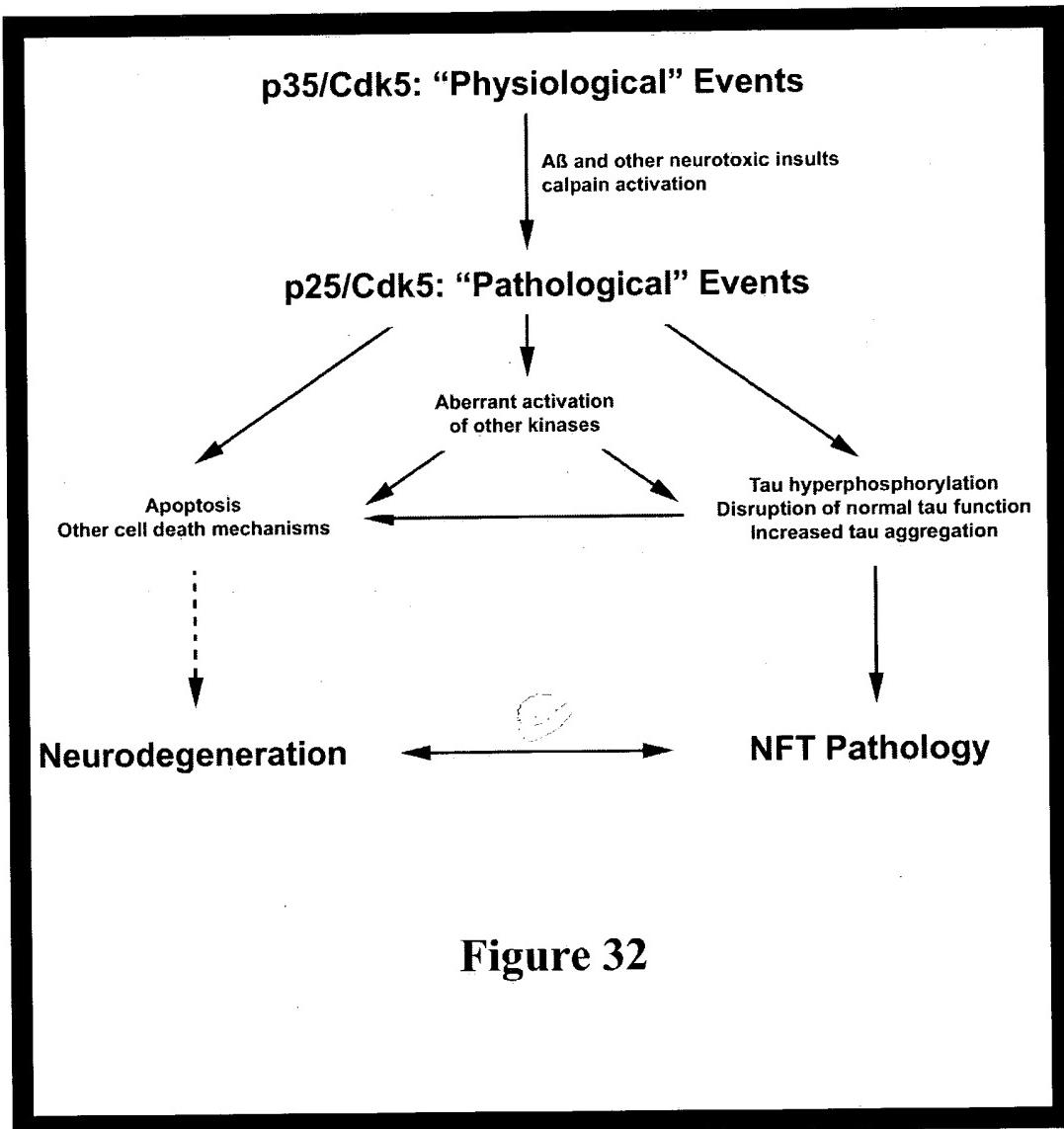
**Figure 30 (cont)**



**Figure 30 (cont)**



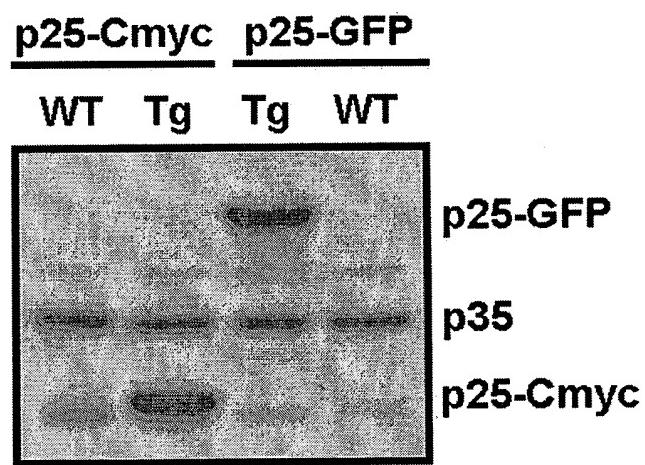
**Figure 31**



**Figure 32**

Applicants: Li-Huei Tsai et al.  
"Compounds & Methods for Treating Neurodegenerative  
Disorders" Filed: July 24, 2003  
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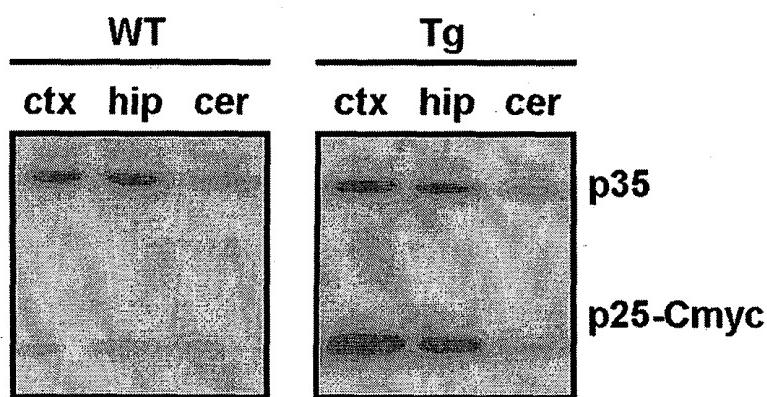
A



**Figure 33**

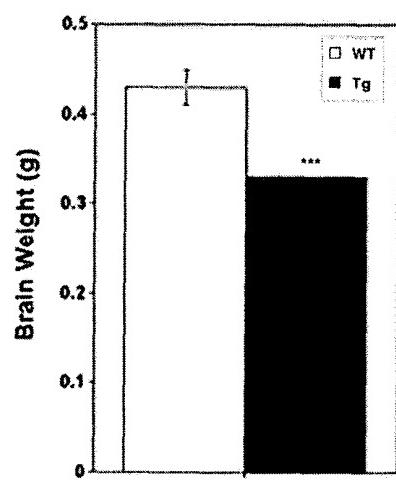
Applicants: Li-Huei Tsai et al.  
"Compounds & Methods for Treating Neurodegenerative  
Disorders" Filed: July 24, 2003  
Atty.: John P. Iwanicki, Reg. No. 34,628  
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**B**



**Figure 33 (cont)**

C



D

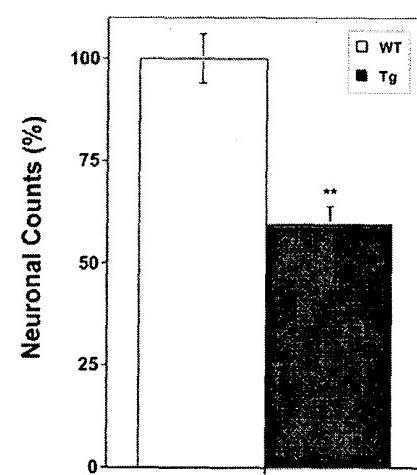
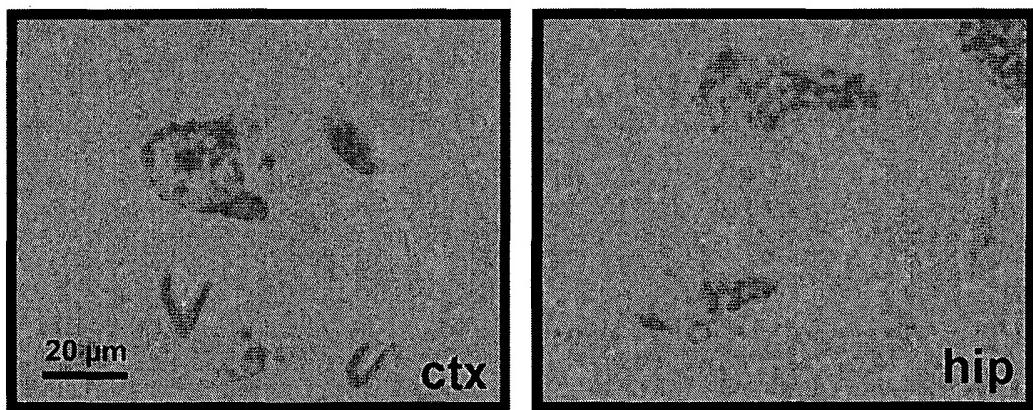


Figure 33 (cont)

E



**Figure 33 (cont)**

Applicants: Li-Huei Tsai et al.  
"Compounds & Methods for Treating Neurodegenerative  
Disorders" Filed: July 24, 2003  
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A

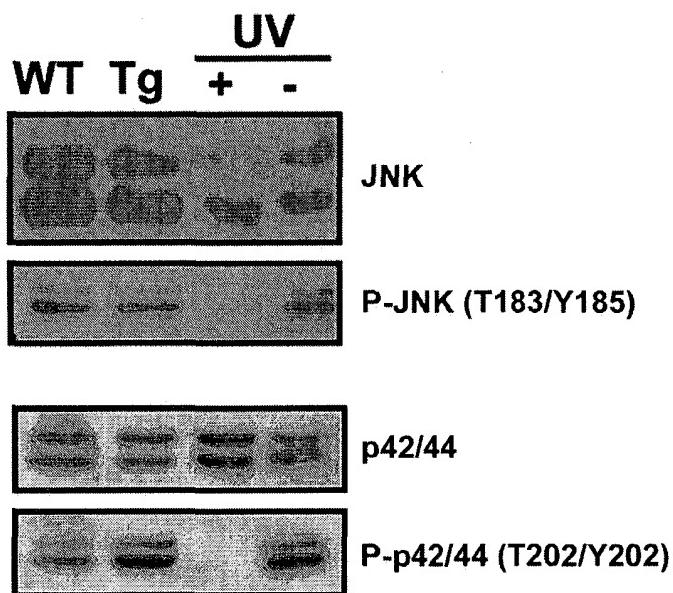
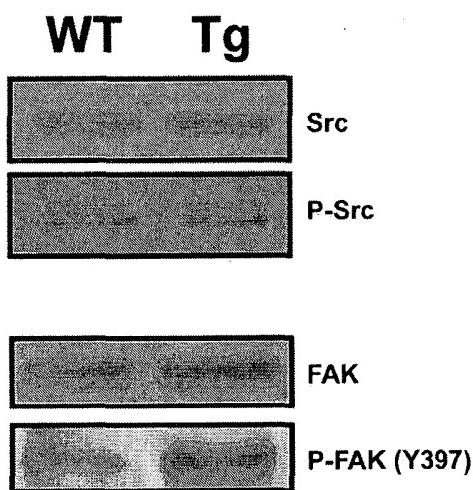


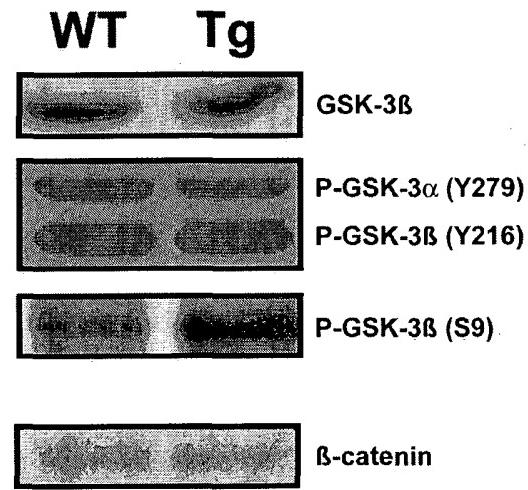
Figure 34

Applicants: Li-Huei Tsai et al.  
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Disorders" Filed: July 24, 2003  
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**B**

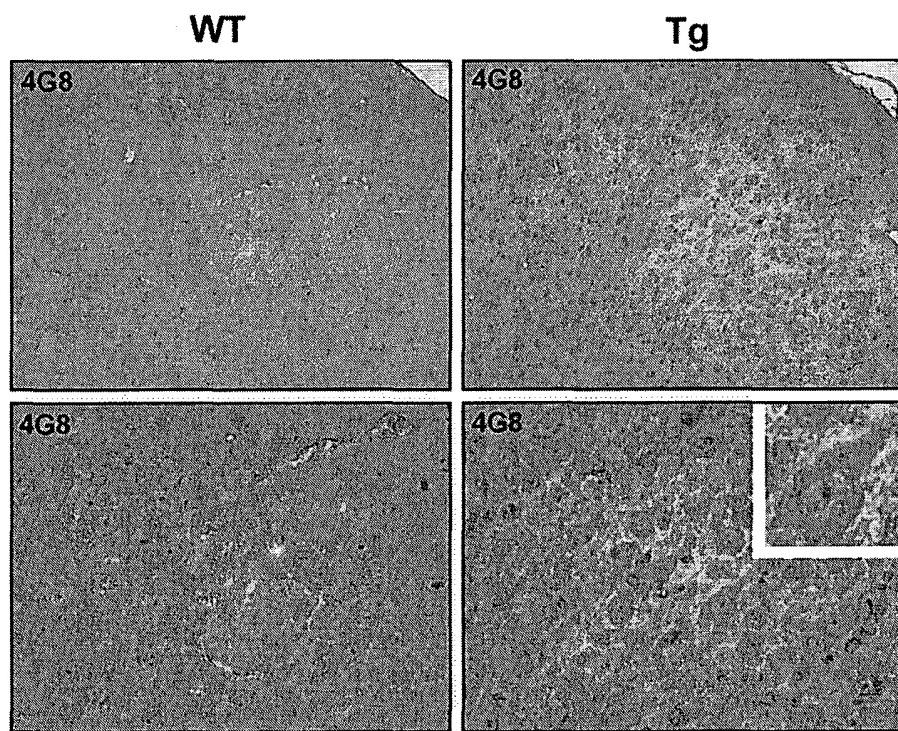


**C**



**Figure 34 (cont)**

A



**Figure 35**

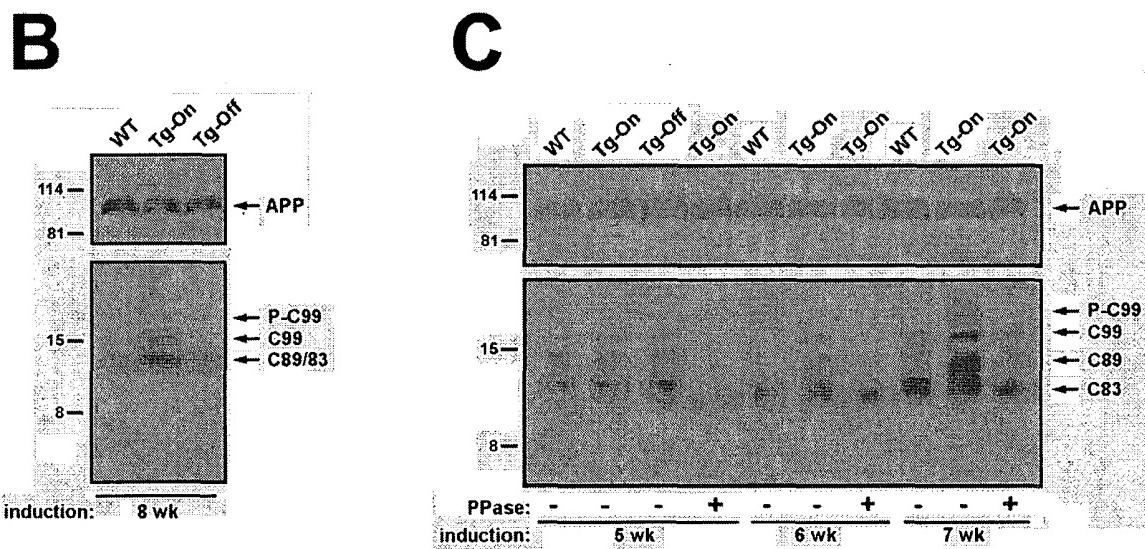


Figure 35 (cont)